

FIGURE 1

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1   acggcatcca gtacagaggg gctggacttg gacccctgca gcagccctgc acaggagaag
61  cggcatataa agccgcgctg cccgggagcc gctcggccac gtccaccgga gcatcctgca
121 ctgcaggggcc ggtctctcgc tccagcagag cctgcgcctt tctgactcgg tccggaacac
181 tgaaaccagt catcactgca tctttttggc aaaccaggag ctgagctgca ggaggcagga
241 tgggtctggag gctggctcctg ctggtctgtt ggggtgtggcc cagcacgcaa gctggtcacc
301 aggacaaaga cagaccttc gaccttttca gtatcagcaa catcaaccgc aagaccattg
361 gcgccaagca gttccgcggg cccgaccccg gcgtgcgggc ttaccgcttc gtgcgctttg
421 actacatccc accggtgaac gcagatgacc tcagcaagat caccaagatc atgcggcaga
481 aggagggcct ctteetcacg gccagctca agcaggacgg caagtccagg ggcagcgtgt
541 tggctctgga gggccccggg ctctcccaga ggcagttcga gatcgtctcc aacggccccg
601 cggacacgct ggatctcacc tactggattg acggcacccg gcatgtggtc tccctggagg
661 acgtcggcct ggctgactcg cagtggaaaga acgtcacctg gcaggtggct ggcgagacct
721 acagcttgca cgtgggctgc gacctcatag gaccagttgc tctggacgag cccttctacg
781 agcacctgca ggcggaaaag agccggatgt acgtggccaa aggctctgcc agagagagtc
841 acttcagggg tttgcttcag aacgtccacc tagtgtttga aaactctgtg gaagatatcc
901 taagcaagaa ggggtgccag caaggccagg gagctgagat caacgccatc agtgagaaca
961 cagagacgct gcgcctgggt ccgcatgtca ccaccagta cgtgggcccc agctcggaga
1021 ggaggcccgga ggtgtgcgaa cgctcgtgcg aggagctggg aaacatggtc caggagctct
1081 cggggctcca cgctcctcgtg aaccagctca gcgagaacct caagagagtg tcgaatgata
1141 accagtttct ctgggagctc attggtggcc ctctaagac aaggaacatg tcagcttgct
1201 ggcaggatgg ccggttcttt gcggaaaatg aaacgtgggt ggtggacagc tgcaccacgt
1261 gtacctgcaa gaaatttaaa accatttgcc accaaatcac ctgccgcct gcaacctgcg
1321 ccagtccatc ctttgtggaa ggcaatgct gcccttctct cctccactcg gtggacgggtg
1381 aggagggctg gtctccgtgg gcagagtggg cccagtgtct cgtgacgtgt ggtctgggga
1441 cccagcagag aggccgggtc tgtgacgtca ccagcaacac ctgcttgggg ccctcgatcc
1501 agacacgggc ttgcagtctg agcaagtgtg acaccgcgat ccggcaggac cggcgctgga
1561 gccactggtc accttgggtc tcatgctctg tgacctgtgg gaattgcaaa gggagtggcc
1621 tccgtctctg caactcccca gtgccccaga tggggggcaa tgcccgctgg agccccgtgt
1681 gggagaccaa agcctgccag ggcgccccat gccaatcga tggccgctgg agccccgtgt
1741 ccccggtgtc ggctgcact gtcacctgtg ccggtgggat ccgggagcgc acccggtct
1801 gcaacagccc tgagcctcag tacggaggga aggcctgcgt gggggatgtg caggagcgtc
1861 agatgtgcaa caagaggagc tgccccgtgg atggtgttt atccaacccc tgcttcccg
1921 gagcccagtg cagcagcttc cccgatgggt cctggtcatg cggctctcgc cctgtgggct
1981 tcttgggcaa tggcaccac tgtgaggacc tggacgagtg tgccctggtc cccgacatct
2041 gcttctccac cagcaagggt cctcgtctgt tcaacactca gcctggcttc cactgctgc
2101 cctgcccgcc ccgatacaga gggaaaccag ccgtcggggt cggcctggaa gcagccaaga
2161 cggaaaagca agtgtgtgag cccgaaaacc catgcaagga caagacacac aactgccaca
2221 agcacgcgga gtgcatctac ctgggtcact tcagcgacct catgtacaag tgcgagtgcc
2281 agacaggcta cgcgggcgac gggctcatct gcggggagga ctcggaacct gacggctggc
2341 ccaacctcaa tctggtctgc gccaccaacg ccacctacca ctgcatcaag gataactgcc
2401 cccatctgcc aaattctggg caggaagact ttgacaagga cgggattggc gatgcctgtg
2461 atgatgacga tgacaatgac ggtgtgaccg atgagaagga caactgccag ctctcttca
2521 atccccgcca ggctgactat gacaaggatg aggttgggga ccgctgtgac gcctgtccg
2581 acgtgcacaa ccctgccag atcgacacag acaacaatgg agagggtgac gctgtctccg
2641 tggacattga tggggacgat gtcttcaatg aacgagacaa ttgtccctac gtctacaaca
2701 ctgaccagag ggacacggat ggtgacgggt tgggggatca ctgtgacaac tgccccctgg
2761 tgcacaaccc tgaccagacc gacgtggaga atgacctgt tggggaccag tgtgacaaca
2821 acgaggacat agatgacgac ggcaccaca acaaccagga caactgcccc tacatctcca
2881 acgccaacca ggctgaccat gacagagacg gccagggcga cgctgtgac cctgatgatg
2941 acaacgatgg cgtccccgat gacagggaca actgcccgtt tgtgttcaac ccagaccagg
3001 aggacttggg cgggtgatgga cggggtgata tttgtaaaga tgattttgac aatgacaaca
3061 tcccagatat tgatgatgtg tgtcctgaaa acaatgccat cagtgagaca gacttcagga

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FIGURE 1 (continued)

3121 acttccagat ggtccccttg gatcccaaag ggaccaccca aattgatccc aactgggtca
3181 ttcgccatca aggcaaggag ctgggtcaga cagccaactc ggaccccggc atcgctgtag
3241 gttttgacga gtttgggtct gtggacttca gtggcacatt ctacgtaaac actgaccggg
3301 acgacgacta tgctggcttc gtctttgggt accagtcaag cagccgcttc tatgtggtga
3361 tgtggaagca ggtgacgcag acctactggg aggaccagcc cagcggggcc tatggctact
3421 ccggcgtgtc cctcaagggt gtgaactcca ccacggggac gggcgagcac ctgaggaacg
3481 cgctgtggca cacggggaac acgcccgggc aggtgcgaac cttatggcac gaccccagga
3541 acattggctg gaaggactac acggcctata ggtggcacct gactcacagg cccaagaccg
3601 gctatcatcag agtcttagtg catgaaggaa aacaggtcac ggcagactca ggacctatct
3661 atgaccaaac ctacgtggc gggcggtgg gtctatttgt cttctctcaa gaaatggctct
3721 atttctcaga cctcaagtac gaatgcagag atatttaaac aagatttgct gcatttccgg
3781 caatgccctg tgcattgccat ggtccctaga cacctcagtt cattgtggtc cttgcggctt
3841 ctctctctag cagcacctcc tgcccttga ccttaactct gatggttctt cactcctgc
3901 cagcaacccc aaacccaagt gccttcagag gataaatatc aatggaactc agagatgaac
3961 atctaaccca ctagaggaaa ccagtttggg gatatatgag actttatgtg gagtgaataa
4021 tgggcatgcc attacattgc ttttcttgt ttgtttaaaa agaatacgt ttacatataa
4081 aatgtaatta cttattgtat ttatgtgtat atggagtga aggaatact gtgcataagc
4141 cattatgata aattaagcat gaaaaatatt gctgaactac ttttgggtgc taaagtgtgc
4201 actattcttg aattagagtt gctctacaat gacacacaaa tcccgtaaa taaattataa
4261 acaagggcca attcaaattt gaagtaatgt ttagtaagg agagattaga agacaacagg
4321 catagcaaat gacataagct accgattaac taatcggaac atgtaaaaca gttacaaaaa
4381 taaacgaact ctctcttgt cctacaatga aagccctcat gtgcagtaga gatgcagttt
4441 catcaaagaa caaacatcct tgcaaattggg tgtgacgagg ttccagatgt ggatttggca
4501 aaacctcatt taagtaaaag gttagcagag caaagtgcgg tgcttttagct gctgcttgtg
4561 ccgttggtggc gtcggggagg ctctgcctg agcttctctc cccagctttg ctgctgaga
4621 ggaaccagag cagacgcaca ggccggaaaa ggcgcactca acgcgtatct aggtttgggt
4681 aactgcggac aagttgcttt tacctgattt gatgatacat ttcatlaagg ttccagttat
4741 aaatattttg ttaatattta ttaagtgaat atagaatgca actccattta ccagtaactt
4801 attttaataa tgctagtaa cacatatgta gtataatttc tagaaacaaa catctaataa
4861 gtatataatc ctgtgaaaat atgaggcttg ataataatag gttgtcacga tgaagcatgc
4921 tagaagctgt aacagaatac atagagaata atgaggagtt tatgatggaa ccttaataa
4981 taatgttgcc agcgatttta gttcaatatt tgttactgtt atctatctgc tgtatatgga
5041 attcttttaa ttcaaacgct gaaaacgaat cagcatttag tcttgccagg cacaccaat
5101 aatcagtcac gtgtaatatg cacaagtttg tttttgtttt tgtttttttt gttggttggg
5161 ttttttgctt taagttgcat gatctttctg caggaaatag tcatcatcc cactccacat
5221 aaggggttta gtaagagaag tctgtctgtc tgatgatgga tagggggcaa atctttttcc
5281 cctttctgtt aatagtcac acatttctat gccaaacagg aacgatccat aacttttagtc
5341 ttaatgtaca cattgcattt tgataaaatt aattttgttg tttcctttga ggttgatcgt
5401 tgtgttgttt tgetgcactt ttactttttt tgcgtgtgga gctgtattcc cgagacaacg
5461 aagcgttggg atacttcatt aaatgtagcg actgtcaaca gcgtgcaggt tttctgtttc
5521 tgtgttgtgg ggtcaaccgt acaatgggtg gggaatgacg atgatgtgaa tatttagaat
5581 gtaccatatt tttgtaaat tatttatggt tttctaaaca aatttatcgt ataggttgat
5641 gaaacgtcat gtgttttggc aaagactgta aatatttatt tatgtgttca catgggtcaa
5701 atttcaccac tgaaaccctg cacttagcta gaacctcatt tttaaagatt aacaacagga
5761 aataaattgt aaaaaagggt ttct

FIGURE 2

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1  mvwrlvllal wwpstqagh qdkdttdf dlf sisninrkti gakqfrgdpd gvpayrfvrf
61  dyippvnadd lskitkimrq kegffltaql kqdgksrgtl lalegpglsq rqfeivsnpg
121 adtldltywi dgtrhvvsle dvgladsqwk nvtvqvaget yslhvgcdli gpvaldepfy
181 ehlqaeksrm yvakgsares hfrgllqnvh lvfensvedi lskkgcqqgq gaeinaisen
241 tetlrlgphv tteyvgsse rrpvcercsc eelgnmvqel sglhvlvnl senlkrvsnd
301 nqflweligg ppktrnmsac wqdgrrfaen etwvvdscct ctckkfktic hqitcppatc
361 aspsfvegec cpsclhsvdg eegwspwaew tqcsvtcgsg tqqrgrscdv tsntclgpsi
421 qtracslskc dtrirqdggw shwspwsscs vtcgvgnitr irlcnspvpq mggknckgsg
481 retkacqgap cpidgrwspw spwsactvte aggirertrv cnspepqygg kacvgdvqer
541 qmcnkrsrscv dgclsnpcfp gaqcassfpdg swscgfcpgv flngnthced ldecavpdi
601 cfstskvprc vntqpgfhcl pcppryrgnq pvgvgleaak tekqvcepen pckdkthnch
661 khaeciylgh fsdpmkcec qtgyagdgli cgedsdldgw pnlnlvcate atyhckidnc
721 phlpnsgqed fdkgdgigdac ddddddndgvt dekdncqllf nprqadydkd evgdrcdncp
781 yvhnpaqidt dnngegdacs vdidgddvfn erdncpyvyn tdqrdtdgdg vgdhcdncpl
841 vhnpdqtdvd ndlvgdqcdn nediddghq nnqdnpcyis nanqadhdnd gggdcdpdd
901 dndgvpddrd ncrlvfnpdq edldgdgrgd ickddfdndn ipdiddvcpe nnaisetdfr
961 nfmvpldpk gttqidpnwv irhgqkelvq tansdpgiav gfdefgsvdf sgtfyvntdr
1021 dddiyagfvfg yqsssrifyv mwkqvtqtyw edqptrygyy sgvsllkvns ttgtgehlrn
1081 alwhtgntpg qvrtlwtdpr nigwkdytay rwhlthrpkt gyirvlvheg kqvmadsgpi
1141 ydqtyaggrl glfvfsqemv yfsdlkyecr di

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1
 61
 121
 181
 241
 301
 361
 421
 481
 541
 601
 661
 721
 781
 841
 901
 961
 1021
 1081
 1141

FIGURE 3

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1   actttcttgc tgctctgcct gcatggacct gtgacaggca tcatctatng aatctcatgn
61  agcgtcgact ccctgcccc aagcctgggt agtggcaagt gagagctgct cacaggcatc
121 aaaggggtcaa aatagcacc aagggcgggc atgannncac gcctgtaatc ccagtacttt
181 gggaggctga ggtaggcgga tcacctgagg tcaggagctc aaagccagcc tggccaacat
241 ggagaaaccc cgtctctact aaaaatacaa aaattagctg ggtgtggtgg tgtgtgacctg
301 taatcccagc tacttggagg ctgaggcagg agaataactt gaaccgggga ggcaaaagtt
361 gcagtgaagca agattgcacc attgcactcg agcctgggga aaaagagcaa gactccatct
421 caaaaaaaaa aaaaaaaaaa tgcacctaa cccaagccca gaagggtggc ccgaacctgg
481 gccttccttt gaagccaggc ctggtatttg ccaagatcgt gcctcctgcc cccacatcac
541 caadgttaac tgcctcccat tagctggtgc tgcctgggtg ctgctggggc gctggcggtg
601 gaaatggcaa catgaggccg tgtctactga gccaggcatc ttagtgcttt acacagagaa
661 gtgaaacctc ctagcaaccc tgtgagttag gtaccatttg attcccatth ttcagataag
721 gaaaccaagg cacaaagtgg ttggtagggt gactaagggt acccaacaaa tggaggcaaa
781 acgggacagc tgtccccacc aggagccacc agctgtccct ccttctccat cccacagact
841 gcgtgaagcc ctgggctact ctggctggat ggtatcaagt gtcacattct gtggagccag
901 gatgttcctc caatccttta atcccaaate ttttattgtg tttgttttgt tttgttttga
961 cagagtcttg ctctgtcgtc caggctggag tgctgtggtg caatctcagc tcaactgcaac
1021 ctctgcctcc tgggttcaag tgattctcct gcctcatcct ccctagtagc tgggactaca
1081 ggtgcgcacc accaagcccg gctaattttt gtattttttg ttgagacggg gtttcaccat
1141 gttggccagg ctggttatga actcctgacc tcaaatgatc tgctgcctc agcctcccaa
1201 agtgcctggc ttacaggcat gagccaccat gcctggccta atcccaaate ttaaacctac
1261 ttttcctggg tctgcctcta gtgaaatcaa agatccctcc gctgctgtcc ctatgggaat
1321 gtggacaggg atgacacctc tcgccagctc tgggtggccc ctctggtctg gtctttgtct
1381 gccagctcc tcaagtctc ctcaacaccc ctcttctcca gcctgtctgc cactctcccc
1441 acctgagtac agacctcat catttccac tgggccccct ctctctctgc cccagctccc
1501 tntccctag ntccatttat ttattctnat tttgnnagac ggagttttgc tctgttgcc
1561 caagctggag tgcaatggcg cgtactcagc tcaactgcaac ctctgcctcc caggttcaag
1621 cgattttccn tgccctcagc tcccaagtag ctgggattac aggcattgac caccacaccc
1681 ggctaatttt ngtattttta gttagagggt ggtttctcca tgttggtcan ggctggtctc
1741 gaactccga cctcagggtg tccacctgcc tcagcctgcc aaagtgtctg gattnacagg
1801 cgtgancanc tgnatnccct gccctagtc catttttttt ttttttaatt gatcattctt
1861 ggggtgtttc cgcagagggg gatttggcag ggtcacagga caatagtgga gggaaggtea
1921 gcagataaac aagtgaacaa aggtctcttg ttttcttagg cagaggacc tgtggccttc
1981 cgcagtgttt gtgtccctgg gtacttgaga ttaggagtg gtgatgactc ttaaggagca
2041 tgctgccttc aagcatctgt ttaacaaagc acatcttgca ccgcccttaa tccattcaac
2101 cctgagtggg tacagcacat gtttcagaga gcacagggtt gggggtaagg tcacagatca
2161 acaggatccc aaggcagaag aatttttctt agtacagaac aaaatgaaaa gtctcccacg
2221 tctacctctt tctacacaga cacggcaacc atccgatttc tcaatctttt cccacacctt
2281 cccccctttc tattccacaa aaccgccatt gtcacatagg cccgttctca atgagctgtt
2341 ggggtacacct cccagaccgg gtggtggccg ggcagagggg ctctcactt cccagtaggg
2401 ggggcggggc agaggcgccc ctcanctccc cggacggggc ggctggccgg gcgggggggt
2461 gaccccccca cctccctccc ggaaggggcg gccggccagg cagaggggt cctcacttcc
2521 cagtaggggc ggccgggagc agggccccc cactcccgg acagggcggc tggccgggca
2581 gggggctgat cccccaccc cctcccggga cggggagggt ggccggggcg ggggctgacc
2641 cccctgacc cccccacct cctcccggac ggggcggctg gctggggggg gggctgaccc
2701 cccacctccc ctcccggagc gggcagctgg cggggcgggg ggctgacccc cccacctccc
2761 tcctggagcg agcggtggc cgggcagagg ggctcctcac tcccagtag gggcgggcgg
2821 gcagaggcgc cctcacctc cgggacgggg cggctggccg ggnacggggg ctgatcgccc
2881 cacnctccct cccggacggg gaggctggcc gggcgggggg ctgaccccc cactccctg
2941 ccggacgagg tggctgccgg gcagagacgc tcctcacttc ccagacgggg tggcttctgg
3001 acggatgggc tcctcacttc tcagacgggg cgggtgccgg gcggagggtc tcctcacttc

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FIGURE 3 (continued)

3061 tcagagggggg cggccggggca gagacgctcc tcacatcccg gacggggcgg cagggcagag
3121 gtgctcccca catctcagac gatggggcggc cgggcagaga cgctcctcac ttcccagatg
3181 ggatggctgc aggggaagagg cgctcctcac ttccctagatg ggatggcggc caggcagaga
3241 cgctcctcac gtcccagacg atggggcggct gggcagagac gctcctcact tcccagacgg
3301 ggtggcggcc gggcagaggc tgcaatctcg gcactttggg agggcaaggc aggctgctgg
3361 gaggtgaagg ttgtagcgag ccgagatcac gccactgcac tccagcctgg gcaccattga
3421 gcacggagtg aacgagactc cgtctgcaat cccggcacct caggatgccg aggctggcgg
3481 atcactcgcg gttaggagct ggagaccagc cgggccaaca cagcaaaacc ccgtctccac
3541 caaaaaaata cgaaaaccag tcaggtgtgg accgtccagc ttcagctcgg catcagaggg
3601 caggctgagg caggagaatc aggcagcagt tggggagagg gagagggaga gggagggaga
3661 angaccgtgg agagagggag agggagaccg gtccattttt atanncatgg ctctgaggat
3721 gggagagggg gagggagagg gagagagcta gtccattttt ccccggtgtc tcatcacctt
3781 gctccaatct gaccacagct tctgttccact tagcgccctg tcttggtgtg gcctctgcct
3841 ggggataaaa tccacactct gagagtgagt gcaaagtcct tcttggtgtg gcctctgcct
3901 cctccatttt ctcaggcctt gctctaccac acaagtcctt ctattagtgc ctcccgatgg
3961 ccagctccct ggcagggtcg atagtataa aatgttcagt agtcagcaat aaagaggcaa
4021 aaacagcaac actgatttat agatatgaaa tcaaccagat gtatcagcca agttgccagc
4081 attcctttct tggtcacaat atctttttatt ccaaaccatcc tttctattta tttttttag
4141 ttaagatttt attacttctt ttgtaaaacg gtggtgagaa taagggacta ttttttttaa
4201 atgtccttac ttggcaaact aaaaaatgtt tgcaactcta gtaagactcc actgggagct
4261 caggggctgg ggtgctgat ctggccctaa agccccannn nnnnnnnnnn nnnnnncngac
4321 actgacctgg tgctgctgtg attcttcttc attgttccca gacagggggc aggaaatgga
4381 atgaaagcag ccactgtctg aagagctgga gaccatcatc tgctctgga agcccagaga
4441 acctcggtc agacagaagg acagagactg aggggaaggga gagagactgt cacagagaag
4501 cagaggaggg tgacagagtc agggaggaac aaaacagcct gcagtgggag cagagacaga
4561 aatgtggggg acccacaggg anggggaggg aggggaaggg gctggggaga gggacccctc tctgttggc
4621 ctgccgtcca agtggtgtg agagcctggg gctggggaga gcaaatcat ctttgggtcc
4681 ttctcataca gtctctatca ggggacccag ccaggctcct tgaaggggtc tctggcccca
4741 acccttcagc tctagaagtc tagggcctgg ccaggctcct tcaagagccc ttcagtaaat
4801 ggcagcttcc tgccccctg cgtggccccc caagcccttc tcaagagccc ttcagtaaat
4861 aaattcactg gaagacatca atgatgggtc ataggaggtg ttcttagggg agaaaatgac
4921 atttagtttt tagctcactt ggagccattt gctttaagaa gcacctcttg gccaggcgca
4981 gtgactcacg cctgtaatcc caacagtttg ggaggccgag gtgggcggat cacctgaggt
5041 caggagtcca agaccagcct ggtcaacatg gtgaaacct gtntctctat aaaaatacaa
5101 aaattagttg ggtgtggtgg catgtgcctg taatccoagc tgcttggggg gctgaggtga
5161 gagaatcgct tgaactcagg aggtggaggg tgcagtgagc tgagatcaca ccactgcatt
5221 ccagcctggg tgacacagtg agactatgtc taaaaaacia aaaacaaaaa cgaagcacct
5281 cttgagagag ctttgcatgc agatgtcaca ggcaaatgc ctcatgttgt ggggaatgtg
5341 gcagtggact tctggggcca ggctgaggcc cccacgtgct gtcccccttg ggagcagggc
5401 agggtnggct gggttgacag atgtgcagag aaggagagaa gtgggggcaa tgccttctct
5461 ctgatggtca gctggcggga aaggctccag gggcttctga ggagagacc taagaggact
5521 ctggatgggc ctcggctggg ggnaggctgg tgctgacctg gcacgtgggc actgtggggg
5581 tgcaatgggg gacagtgtgg gaggtgtcat ggggggtctt tacactgggt actaaagagc
5641 ttaggagcct gagctacctg gtgtggggca atcacatttg ctgctgtgtc caggcaagga
5701 ggagcaggtg ggcttggaac ccaaagtgc atgaagtggc caggactgag cgctgggcca
5761 acgtgagccc caggggggtg ttggatttat cagctgaaga agggcctatg gaaggggaga
5821 aaacaatcct ccagacagat gagagcactc agtcacatcc acctggacct gacatcacct
5881 cccaggtgtg gcaggggcac acacagaaact ggaatgggta atgacttatt agagcctcct
5941 tccaacagct gtgggccctg gaacctaaaga acccaccttt ggagaacatt tttgggtctg
6001 agagctttga ggccaggcct tgagacaaac ccacccagaa gccctgagct acttttctg
6061 taagagtagg nagggccctg ccctgtctcc agggagccgc ccttgatccc tgggaagagaa
6121 ggaagcactg actgatccag aggggagatg agtccagagg ctgagatcag ctggaaccgg

FIGURE 3 (continued)

6181 gccaccagct gagegtgtga ttcctctggc tccaggccac ctctgagggt ctcccaatgg
6241 ctgggaggga ttagaggact gtggcttctt gggtagggga gcctctgggt tacagtcacc
6301 gtgccctttg aatctaactt gctctcgaca agaatacagct gacctgatag gcatgctcag
6361 gcaggaggca natggccagg gccaaagaaa gcataaggat ggagtagagg agggagcaga
6421 gcagggtcag gtgaaatctc tcaactcagg caattgtgca gctgacttgc tgataccttg
6481 gaggagtcac gaagtccagt gtgcccagtt ggggcatctt ccaggctgtg gctccatcac
6541 cctgcagttt tggctcagaa cagccaccac atcctcactg ctctcctggg atgagaagggt
6601 gggtaggaaa ccagggggctt ggtgcgtggc cagagctgga gcagcttcag gagccagggtg
6661 aaacctcaga gcctcacagg ctttgaacaa agtgcaggag tcccagccct gccatttatg
6721 gcgggttccct ggcggtgatc agtcattatc agcagtatgt tcaactctgt gatatcaccc
6781 aaggccatga tcatccctta ccccaggcct tgcacacttg ctccctgtc cnnnnntaga
6841 cagctgggnn nngctgttcc tgctcttcgc tggcctggc actcacagag cagctgactg
6901 actgacctac caacttaggg agaaaagggt ggaggtggg atggaggaca ctctggggat
6961 acagcctctt cgtgatttcc ttcctggagg ggagaggcgg ccagggaat gcaatgctgg
7021 ggctgcagtg cctccgctca gccacagcac tggctgcagg gcaaaccctc aggaccagat
7081 gaggggagct cagcctgatg tccaggttcg ctggcatgtg agggacgtgg tcaggcacag
7141 ctatagccat ggggtctatg acggttccct gatcccagga attgctgggt gggctccctga
7201 tacacacctc acgtcttcaa cctctgccct ctctgatggc ctgttggcac tccctctgcc
7261 tatctctgca cactcagcga ctttccctt tgatggggac aggagtggag gagggcaggg
7321 caggatggag acaccataca cattcctgct cagtgccttt gccctccctc tccatccat
7381 gggagtcacc tcccctagac cttcantgtg gcctgcgccc ccaactctcc ctcccagagc
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7501 ctctcttca tgctgcttgt taggttgaaa cataacatct gtgtttcaaa acacatgcag
7561 tcaggtttct gtgcatgtgt gtatgtagat atagattgtg gtgcaatctc agctcactgc
7621 aacctcctcc tcttgggttc aagcaattct cgtgcttcag cctctcagat agctaggact
7681 acaggcatgc accaccacgc ctggctaatt tttgttttcc tttttgtatt ttttttagtg
7741 gangatgggt ttcgccantg ttggccaggc tggctctgga ctctctggc caagtgatca
7801 gcctgccttg gcttgccaaa gttctgggat tacagggtgt agccaccgca cccagacgtt
7861 agtttacttt ttaattccct gtctaccac ttcttgtaag ttacatgaaa gcagacacct
7921 tgtgtgtctg atctgttact gtctctccag ggccctaggat aagcagggtgc cagtaagcct
7981 ttgttggaa gaaaggaagga gagaaaatgt acctcctctg gatgggatcc ttggctcctg
8041 cgtgctgatg tgcagcctgt gaccggggt ctgactgct cctctggctc caggcaatca
8101 tcatggaaa ggcggcctcc ccagagggt gcctgggaat gaactgggca tctggggaag
8161 cccattncct ttggctgcct cttgctgtg gcgcccagg ctgcccgtcc acctccttg
8221 tgaagctggg cccagccct gcttatcagc cccatgtccc attccttgg gccagcaga
8281 ggtaaaagt gctaagtggc ttaactggg cagggtgcagt ggctcacgcc ggtaatccca
8341 gcactttggg aggccaaagg gggtagatca cctgaggtcg ggagtccag accagcctga
8401 ccaacatgga gaaacccgt ctctactaaa aatacaaaat tagccaggcg tggtagtgca
8461 ttcctgtaat cccagctact tgggaggctg aggcaggagg atcacttgaa ccacggaggc
8521 ggcgggttga gtgagctgtc attgcactcc agcctggaca aggagagcga aactccgtct
8581 taaaaaaaaa aaaaagggtg ctttaactgt ctctctgtca tggcctctcc ctccctctg
8641 cccagtggt atttggctct tttgtctgtc ttgttttcc cagactgacc agcctgggg
8701 ttaaccagg gtaggtgac aactcacagg caatgacgtc cctcagcctc cttccccca
8761 cactccagag gctgcagggt actcagggtc ttcgtcgggt gctccggaag ccttgcagg
8821 gccctgccac atggccgctg tgctgctggc tgctctgacg ggtcctgccg gggctactgc
8881 tttcctgtcc cctccccga agctgggaga tggatttcc cctgagtga ttaattggc
8941 tattttaagc tcatcaaagt agcctcgtac tttcaagttc ctcagggagc aggccggaa
9001 gatgatacct gcggacttaa ggctgctcca cctcctgagc tggacagggc ttggctcctg
9061 gtcaattgtg aggtccctca gggcaggccc cctcctgagc tggacagggc ttggctcctg
9121 agtgcgtgatt ctgcaggctg tggctcagtt ctgcactatt actctggctc cggcaaatcc
9181 tcatgaaaat aagcctggga gcccagagg ttgcagggtta gcccctaca gccttccct
9241 gcatcactct tgctcctcta accagggaca ctctgcctc ctccctgact atctctgccg

FIGURE 3 (continued)

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9301 ggттаacacc tgagcatctt ctggctcgat aattctgtca tgaccaata cgccttcctt
9361 gaccctcaca tctgggttga gggccttcct atgccctgta cctaactctg gttttccctc
9421 tgtaagggtg tcaagatgg gcttgggcag agtagtttca aaggctctcc ccaaactctt
9481 gtgcagctcc cctgactgaa ggcctgtgag aacaggggtg tgectgtctt gttcactgtt
9541 cccaataacc tcacctagtg cctggcacag agaaggtaca aaaataaaac tttcccaaga
9601 atgaatgggtg tgcatttgaa tcttatagtg tctgaggact ggggaacctat ctcttatccc
9661 tttgtatcct ctgctgcccc aggtcagggc ctctgcctga agtccctact gaatgagggg
9721 taactgggtt agagatgagg gaggaagcca ttgctgggag gggctagaan ctgggcccc
9781 gcccttcccc caccgagca agagcagtag gattgtcaga tgaaacacag gacatctgct
9841 cacatgtgag gaatacatct tttttttaag acagattctc tctctgtcac ccaggnctg
9901 gangtgcagt ggcattgatct tggctcattt caacctctac ctcttgggtt catgccattc
9961 tctgtctgta gcctccccag tagctgggat tacaggcatc caccaccatg cctggcta
10021 tgttgtgttt ttagtagaga cagggttttg cctcattggc aggtggtctt tggactcctg
10081 acctcaagtg atccgctcac ctccagctcc caanagtgtt gggattacag gcatgagcca
10141 tggcaccag ctggaatata tcttttagtat actgcatgta atatttggga catgctcatg
10201 ctgaaaaaac taactgaatt tgaatttttt tttgggtttt tttttttgag atggagtctc
10261 actccattgc ccaggctgga gtgcagtggc acaatcttgg ctactgcaa cctccgctc
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10381 caccttgccc agctaatttt tgtattttta gtagagacgg ggtttcacct tgttggctag
10441 gctggctctg aactcttgac ctccagtgat ccacccacct cggcatcccc aagtgtctgg
10501 attacaggtg tgagccaccg caccggcct gaatttgaat ttaactggga agcctttttt
10561 tattttttcc tcttctttct gaatctggta accctagcaa gggagaagtg actagccagg
10621 tgccaggtgg gtctacggcc tgagtctcca gctctctatt cacattctgc ctgcttcctt
10681 gatgcttctt cctccttaaa tgccttctgt cagagaccag ggggcaactct aggcctggct
10741 gccagcacg cggaaatccag gagcactcct acctccta at cctgcccc gctgccccct
10801 ggatgggtcag ggaaggcctg agggagtgat gtttgagctg agatttgaga gaatgtgacc
10861 agagatgatc caggaaagaa cattccatgg agaggtggga gtgaacttgg tgcattctgaa
10921 aacagaaagg ctagcgtggg tctgcgatgt gggaaaggag tggaaacatg gaaacacagt
10981 cagcatttcc tttttttttt tttttttttt ttgagacgga gttttgctct tgttgtccag
11041 gctggagtgt aatggcgcggt tcttggctca ccacaacctc tgctccttgg gttcaagtga
11101 ttctcttgcc tcagcctccg gagtagctgg gattacaggc atgtgccacc cgcggcgct
11161 aattttgtat ttttagtaga gatgggggtt tcccacgttg gtcaggctgg tctctagctc
11221 ccgatctcag gtgatccgcc cgctcgggcc tcccaaagtg ctgggattac aggcgttagc
11281 acnaactcag gaggccttgg aactcatctt gtgccactca agaaagggga ggaggggtcc
11341 tctcctttcc cacctttccc aagctgaagg actgcacact tctcaggctt ccaaggcagg
11401 agcttcggca gcaggaacag ggttgcaagg tagttagtct ggggtgtctgt cgtcctgggt
11461 tgggacatct gggagctggg gcaaggcctc tgggcccctag tgccagagag cagtttgggtg
11521 gcgttgcttg tcttttaaaa tgggttaggt gtagccatga gccccccat gcagcgggtg
11581 tgcaggcctc tccctcagtc agaacacctt caccacccc tcccacttg aagcaggccc
11641 ttgagaacac tgctggcagg gaggcggctg ctcttctcc taagggaata gctgcagcc
11701 ccgtgctgct gggccgtggg gtgaggggga agccaaaggg cccctatcac cctcagcag
11761 gagtctctcc tggctttgga aggggtgaa gggccggng ctctcacgag ggaactcagc
11821 cctgctcagc cggtcaggac tctcctcca cgtctaaatc cacagacca acaaaggaca
11881 tggctcagtt ccaccttcaa tccacaggga ttctgcctgt tagcacgcta aggaactgt
11941 ttcttacttt aaattatcca ttaatttctt ccaactgaaa gatactctac aaattttctg
12001 ttgttggagg gtttaagctt ggctccctctg aggggggtggg ccctgctgtg tgagccctt
12061 gtgtctgctc gtggaagggtg tgccatgtgc caccgtgtgc catatgcagc tgacacgcct
12121 gtgcgtctcg cctggcgtg gagactgtc tctgtgtact aagcgagtac tggatcccc
12181 gggcctatct tgcctactgc ctgtggcaat nacacaggca atacacaaag cgcattcaag
12241 taagcaggte tccctgcccc ccggcctccc agaacctcgg tgctggagg gcaggntggg
12301 ggnagggcgt tctgaatgg aggcgggtt cctctgcgg ggaggaaacc ccatttccct
12361 cctaccctta ggcgcttgct acatctggcc cggcatcaga caggaaagaa cctttcttc

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FIGURE 3 (continued)

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12421 ccagcttgta ggaagtctga gctgggcccc ttatctaccc acagcacttc ctggaccggg
12481 ggcctggacc gggctccgaa gggngctggnc tcccgggtctt ggtcttgggc tcgggcgcct
12541 cgtttctctg cgctttgggc aggggaagct gcggacggca agctctcggc tttcgtgaga
12601 gcctggtgga atcgggtgttc cccgaaggct actctgcggg ggcgggggct agntccgggc
12661 cttcccggca gtatcgtcnt ccccgtggg ggctggggna nggtngcccc cagggtcnnn
12721 ccggagcggc ggcgtggcca agggccgaac cgggtctgac atctagtggc ctctggggc
12781 cgggcagggc gagggncggg gcagggaaga aggtggaggg cagaatggga ggcgtggagc
12841 gagaaaatca ggaagcgcgg gaccaagccg gggaaggcg gcgggtctcg cccctggcac
12901 ccgctctcct cggggcccg tccatcccc aggcctggcc gacccaggt ccttccgtgc
12961 gcagtcggg ctcgcaagga cgaatccgc ggccctcgag gcaggcccgg gggagctccc
13021 ggcctccac cccgcaggc cgcagatccc acgcaccccc gatcatgggg gccccggagg
13081 gaggtcgca ggcggggctc acggtggccg cggttcgccc acgtgcgggc ccggagctgg
13141 cagggccgg tcccgagcgt ggccgcaacc gcggggacct ggcacgtgcg gggcagcccc
13201 gggggccggc tacgccactt ccggtcccgg agacaccgcc cagcccggcg cccggttgcc
13261 atggcgacgc cgtcgcgcca cggcccgcag aaccggccaa gcgaccggg cgcggcgcg
13321 ggaggctgaa gggacgctcg ggtaggcaag gtaggaggcc gggctggggg tgggagcgga
13381 gcgcgcagg gtgcggggcg ggggcggccc aggtgagccc tgactgcgca gggagggaca
13441 gcgcggggct cccgagtagc agccggcctc gcacctgccc cttgcgggcc cgcactggac
13501 tgcggcgccg acccgcaccc tggggcccgag ggctgcaggc tcgcccggcc tctcgagacc
13561 gagcctctcc cgggtccaggc ggcccctgcc ctggcctgcc cgggtgcccg gtctctgctg
13621 aagttagaac cgagaccccc gcttgctggt gaccccgagt ttggatcttt gctcctgcgc
13681 cgcgttctag agcaaggtag ggtgcaaatg gaccaaccag cttttgccac ggctgcctc
13741 ttgaaatctg aaaccggagc caccgcctct tgcccgcagc agggcccggg ctgcaacgtg
13801 gagccgcagg tcccgcctg tgtctccga cggcccagc ttctgagcgc gagggtggga
13861 gtttcccag tgggaaaagc ccatggcttc ggtggcctcg gtggcctgt ggtgggtcag
13921 gccgggtgca actgcgtga gggcgactg ccgccacctt gacacctggg agatggcagg
13981 gccaccctcc ctccctccct cctgccttg tcccgcactg tatcacggag cgaggatcat
14041 ccgtgtggat ctgggggtccc ctcccagac ttctcctttc tggctgctct cctctcattc
14101 attccacctt ggcagccttt gtggattttc tgactccgta aatgaagtta catctagggc
14161 gcctagattc tgcccctttg gtttaatagc taatgaaaaa aaaaaaaaaa aagctttgcc
14221 acctcctcta ggtgcctgga tttctcccgg tgaattttga tggaggcagg aaaatacgag
14281 gcgggtggcag ccccacctcc ttgcatgagg gagcctccta gagctggagg tggaaaccac
14341 ctgcttgctc cactcctttt ctttcttgtc ttattgcttt cttgctttcc ttactttcct
14401 tccttctttt ttttttgaga tggagtcttg ctctgttgcc aggaggcttg agtgcagagg
14461 gcaatatcag ctcactgcaa cctccatctt ccgggttcaa gcgattctcc tgttccagcc
14521 tccctagtag ctgggattac aggtgtgtgc cacaacacgc agctaatttt tgcattttta
14581 ggagagacgg ggtttcacca tgttgccag gctggtctcg aactcctaac ctcaagtgat
14641 ctgcccgcct tggcatccca aagtgctagg attacagacg tgagccaccg tgcccagcct
14701 tgtcctacta cttttctgoc ctcaccactt ttccttgcca ggcagagctt gggctcctgc
14761 taatactggg atggttcagt ggcattagat ggcattggtg gaggggaatg agaaattaac
14821 cccctctgaa agcgtagctt cactgggaaa aagcactcta ctgtctgaac aattcataaa
14881 tgaattttgg gaatatacaa tgtcacagat taaaagcaga ccacctctgt ttcttcagc
14941 ccaggagct tctgcttggt gtgcaggggc taatggtgga cagcaatgga gtgtagattt
15001 attagagacg gctgccatct ggctctctgt ggccccaac ctcatgtgtc agcagtgtga
15061 ctcttttctaa ggtgctctta ggaccagatt tcgtttttgt aagattggtc tttgatggaa
15121 tgcctacttt gtggcaggca ctgtgctggg cgctggcaca cttttatcca cttactcctt
15181 ctgtgttcaa taaggtagct ccagatatcc tccactttat agattaggaa gcaggcttgg
15241 agaagggact tggcttgctc aggagctgat ggttataaat aatgagctcg ttttgaaatc
15301 acatctctct aacctgggct gcgctggggc tttcatgggc cgttggccct ctggccttca
15361 cgggccccgt cttccataaa aaaaataata acaattggcc cggcgcaatg gtgaaagcgc
15421 gtctctacaa aagatacaaa aaattagcca ggcacgctg agcacgctg taatcccaga
15481 ctcggggagt ctgaggcagg agaattgctt ggacccggaa ggcagaggtt gcggtgaccc

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FIGURE 3 (continued)

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15541 gagatcttgc cattgcactc cagcctcaaa aaaaaaaaaa ttaataaaaa ttatatattta
15601 caactgcatt ggtataaata caagtatatg ccagactgga ttacaattaa ttttaaaaaac
15661 aaaacatttt agggctggct catgtctgtc tgtaatccca gagctttggg aggctggggc
15721 aggaggactg cttgagacca ggagtttgag actagcctgc acaacatagt gagaccctat
15781 ctctccaaaa aaagaaaaaa ttaactgggc atttcagcat agctgtagt ccagctactt
15841 gagaggctga ggtgggagga tccctcgagc ccaggagtgc gaggctgctg tgagctatga
15901 tcatgccatc gtattccagc ctgggtgaca gaggtagaca ctgttaacaa caacaacaaa
15961 aaaattaatt aaaataagtt ttaaaaaatt gcaacatttt cctcaaccct aaatgttcat
16021 ttttttcttc tgattttcat ggaaatggaa acattttggt ttgtaagcat tgggagccct
16081 ctgtcttctg ggagaaagga gctcagtgtt tgacttcagg ctctgctgct tctgggtac
16141 ctagtctcct ggtacctggt ccaagcagcc tggatacccc gggctccctg gctgctggg
16201 ccaggacagc cgccctagga taaatggaaa tgcagcccct gcggttctt caccctcctg
16261 taatgccttc tctcttacc tttggtcagg gcctgggtgc tctgcatgca ccagggctta
16321 gtgccatgct ggtacaagcg tggggaggat gcaggaggac tggcatggga tggggagcac
16381 tgcctgggaa gccccttctt cctggggcta ctgggggtgc aagaaagtac cctaatagt
16441 cacaccacac tttgctttct ccttcacac atgctaggac gctctagggc aattgagctg
16501 ttttccccct caccatcaa gaagagatat cggcctttcc gcagtcacag tctttcctaa
16561 ctcaattcaa actctgctgt tgataaggag ggctgtagcc agcccaggct gccgcttcc
16621 cagcctcccc tgctccgctt tccgcccccg aggcctgtgca ccatgtgcag tgtctggctc
16681 ccaataatga gattagtctt ggttgccctt taataaaacg cagtgggcac cgggaggag
16741 agcgatgctt ggctcagtga agatctgcgg gtcattgctgt ccctaattgc ctgattgcat
16801 taagtggatt ctggctgcag gtagggtag tgggtgggga cgagggtgac tctcacagct
16861 ctaagatcca gaaactgcca gagatctgtc accctcatcc tgagctgtca cagaggaagg
16921 caagtgaact tgtgaggggc tacgtgagct ccctctggtt gcaaggttct ggtctgcagg
16981 gcagtggagc ccttgggggt ggggagtggc agcttccagg ccttgaagct gctgccaca
17041 gttctgctct gagaacacag agggcccaag aacagccggt gtcccagggc tgcccagtga
17101 ggaggggaaga gcgagagagt attcttgctg tcaagactgg gaaatgaggg ccacgattca
17161 aagccttgc tctaggagg aaatctcacc caatgtccag gtttgcaat gcagcagaca
17221 catttggtgg tgggtcagat tctgtccaga gataccagaa tgtctatccc tgtacacccc
17281 cacctctggc atgggacagc ccttccctgc acacaaatgg gttatcaatt atgtccaatg
17341 aatggcctca cgagagtcct gttgcggaag ggatcttccg ctatctctct gtaaagcaca
17401 gagccacgct cagaacctac ggactgtggt cgctgcagg ccagccatgg gcttccctt
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17581 ctgcctaggc cagggcaccc gctctaggag caaatggaaa tgcattctcc tggcttgtt
17641 tgccctcctg taacccctc cctcttgct tccgtcaggg cctgctgtct tgcacgcacc
17701 agtgcttagt gccatggtgg aaccgaggcg gggaggacgc aggaggactg gcacaggagg
17761 gggggcaccg cccgggagct tcccctgcgt caaagcagct tctcagtga gctccaacac
17821 agacccttgc tggcctcagt ctctggaaaag actgacagca ccaccctagt tctgggctt
17881 tggaaaggcc aaagccacga gcaggcagcc actgttcggc aggagagcta gagatgctat
17941 tgcccacaga catcaaagca ggggtgccgt cttccgtgtg catgctggga cgggtcttgg
18001 aggccagat tagctcctgg cttgaacttg taccaccctt acctgaaat tgggtctgta
18061 ccaaagctca tctgcacgcc cctttagggc agggaccagg cccctctgt gtggccctag
18121 cacctggcca agtgacaggt gctgcgggtt gagttgagct gctatttgc gatgggaatt
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18241 tgctcctggt atccacacag tgtcatttaa gggtgacatt agagatggca tgaagtggcc
18301 agcacagagc aggtgctcac aggtgttgg gtcccccccc tactgacaca ccaagcacac
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18421 gccgggcatt tcaactgtag atgttgaagc cgcaggcagt cgtcgctgcg agaagagagc
18481 ctggctctga tgtccactgt cttccaggga gcttggggg aaggaaggag tgggcagcgg
18541 cccctcgctc tgcgggcctc tctgcccct tgtactccac gaggtgtgag gaagttgccg
18601 ggtcacccag cagagggaga ggtgatgtcc cctctgttct tcttaatttg tagctaataca

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FIGURE 3 (continued)

18661	gattctgcct	gcagccaggc	tctctgggga	tgaatcta	aaaggaggcg	gcgacctgga
18721	gaggaggaca	gacaacaagt	gaccaggggg	gacagcactt	ctttcagtag	atcttcctgt
18781	tagactcggg	gtattagaga	cccaaagata	cccaaggagg	agtgagagcg	tccctgcctt
18841	cgaggagcag	acagggcacc	gcgagggtaa	ggaggctccg	ggagagcctg	gggacagagt
18901	gatctgccac	cgcggtgcct	gaggagtggg	ggcaggggtg	tgggcccaca	gcagggagcc
18961	aggctggggc	atgtccttgg	attctgtgag	cccaggcgtc	tcctctagag	ggcctagcag
19021	gaacagtggg	ggctgcagat	ggaaacgggc	aggatcatgc	catgcagttg	gcatttcact
19081	ggcactcggg	ggcacttacg	caggggacag	catgatgttg	ggagctggct	ttgtccctgg
19141	catgtctgtc	acgttgaaga	gggagaagct	gcaggccctg	acttgggtgg	ggcagtgagg
19201	atgtctcagga	gggaagttag	gggaggggtg	ccagcatgcg	gcggcctggg	cagccttctg
19261	tggaggagct	gaggtgtcac	ctggggcccg	aagaagggca	gccctgctag	ctagtgggga
19321	gggcatgaga	gaacttggcg	acgatgggag	agaagggtgac	ttgggacgag	ctgggtttga
19381	agcgtctgtg	ggatgtccag	gtagagatga	gtagtgaacc	gtcagaaatg	gggcttgaat
19441	ttgggggtgg	ggggacagaa	ctgatacccg	tgtaggtgac	agataaggac	agaggcagga
19501	gttccaaaaa	taggatttat	tgttggctgg	ggcttctgga	atcccgtatt	cccgtccacc
19561	ctgggaatgt	ggattggagc	tatgtttctg	ggagatgatt	tgatggaatg	tgtcagaagt
19621	ctaaaacaga	acctagccct	tgttttcagg	ttccctgcag	agaagtgtgc	agatgaccac
19681	atcctgttgt	ttatttgggtg	gaaaactgaa	atcgaaagct	agctaaatgc	tgaacaatgg
19741	gaactagtgt	gctaaaaaat	ggcctgcaa	tgcaagagtg	tgaggttacg	aaaatgatga
19801	tgtgggcgcg	tatccattga	cacaaacatc	catgtgtgct	acgccctcag	ttaaaaagca
19861	ggttagaaaa	tggaaataaat	gatcctgctt	ctataaaaagg	atgcatatgt	gttttaggaa
19921	gaaggtgtgt	gaggatatag	atcaaattct	gatggcctgt	cattttacct	tttttgctga
19981	tccatattct	actgcagtgc	gtgtggatta	ttagcacaca	cacacacctt	ttttttttta
20041	attaaaaaaa	atcttttttg	agacagagtc	tcattctgtc	acccaggctg	gaatgcagtg
20101	gtgcgatctt	ggcccactgc	aaactctgcc	tcctgagctc	aagggattct	agtgcctcag
20161	cctcccaagt	agctgggatt	acagggtgtg	gccaccatgc	cgggctaatt	tttatatttt
20221	tagtagagat	agggtttcac	catgttgtgg	ctggtcctga	actcctggcc	tcaggtgatc
20281	cactcgcctt	ggcctcccca	ggtgctggga	ttataggtgt	gagccatcgc	acccggccca
20341	cacacacacc	ccccctttaa	tgggtggagt	gccaacagtt	gtccgatgtg	gcagagagaa
20401	ctggggagca	gagaaggagc	ccatcactgg	gagggactga	aaaccagctc	ctgggcactg
20461	cagggcagag	cgtgtgcccg	gtgtgaaggg	ggtcagtgcc	cctgtgctgg	ccactgtccc
20521	cctagtctct	atacagttgc	tgccaggaga	ggctggaccg	tggcaagggg	ccagtgggga
20581	accggggcg	gatggggggc	agcagcagtg	ctctggggtc	tgcttgtggg	ggccatgggtg
20641	gtggcagttg	cagtggcaac	tgtgggccat	ggcagcactt	ttccgtggcg	cacaggccgc
20701	tgccgggtga	ggggagagcc	ccgcttgttc	tcctcctgcc	gcctctcttc	ccatccccag
20761	ctgctgggtg	ctctccggcc	ggcatgaagc	tgtgcaggca	ctgggcactc	ccttgggctc
20821	ttagcggggc	cttctcattg	ctgcttcgct	aggaaccacc	cgctctcctt	tcctcctgga
20881	gggccacgtg	gggcgagcac	ctgggacagc	cgtgctgagc	tctaccgggc	cccttcgcag
20941	gcctcgtttc	tgggggcctt	cagttttgga	aacctccctg	agggcccttc	tagagtgcgg
21001	gtccgccccg	cccctggtgt	ggaggggaag	tgcctgtcc	ctgtgtgctg	acaggtcctt
21061	gtgtgcagca	tggtcggggc	acttctactc	tgcaggcgcg	gccggggcg	gagcgggggtg
21121	gggggcgggc	gggggcgtgg	ggggagcggg	gctggctctc	ctgggtgtgg	ggtggggagg
21181	cctcctcctc	gccagcatgg	agttaaaaac	caggatgggg	gagggagact	tcccatctct
21241	cccagatagt	acttcatgac	gcgtctggag	aaaagggtgtg	accagccctt	tccttcccgt
21301	caaggagcgc	gcttgccctg	gtaactcacc	tgtaaagccc	acccagggaa	ggccaggggc
21361	tcatgaaaca	gaaaacaaag	ccgggcactg	ggcccttgag	ctcactagaa	tttgggggat
21421	ctttccttgc	accctcaccg	catatggaac	tcctggcgct	gtgtcccagg	tcacgcctgt
21481	ccccgtgggg	aggctggggc	cctcccccca	gccactcccc	agacttgaya	cctctgcctc
21541	aggacgatgg	gtgggaaggg	gcttgcgggg	aggagagcga	gcgctgcttc	cagcgggagc
21601	ctcgggggag	ggtggcgggg	cgcgcgtggg	aggagccgcg	cgcctctca	ggcgagctct
21661	ctaggggctg	tgcgcacccg	tgggggggac	atgcgcacct	caggggggct	gctgcacctt
21721	gggggtgctg	tgtgcacctc	gggggggctg	tgcccatcta	gcgggggtgg	tgtgcacatc

FIGURE 3 (continued)

21781 tggagggggc tgtgcgcaac cccggggggg tgttgcgcg atctagcagg ggcggtgtg
 21841 cgcatttcgg ggggggctgt gcatactcgg ggggaccgtg cttatctccg ggggcggctg
 21901 tgcgcatctt gaggggtgtg tacatctcgg ggggcctgtg cgcattcttg ggggctgtgt
 21961 gcatcccgcg gggctgtgcg catctcgggg tgcgtgcgc tgctcctctg agctctgctc
 22021 tttcttgagc cgtttgcctc agcatggagg gcggggcccgc ggcagccacc cccacagcac
 22081 tgccttacta cgtggccttc tcccagctgc tgggcctgac cttgggtggc atgaccggcg
 22141 cgtggctcgg gctgtaccga ggcggcattg cctgggagag cgacctgcag ttcaacgcgc
 22201 accccctctg catggtcata ggcctgatct tccctgcagg aaatgggtgag tcccatgggc
 22261 cgctcctctt tcccgggct tgtgggggtc cctgagaggc agtttgaggg ggtcttgtca
 22321 cccctgcggc ctcttctggt tggacaaatc taagattcta gaaaagacag agacagaagc
 22381 tgggttcagag cctggggaga tggaaatcaa acccaggctc tgaggttggg gagtggcagc
 22441 tcctctccag cctgggtccag ctttttcacc tgcgttccac acacagcatc caaggcgggc
 22501 acttcttgca gcagagggaa aggaatgagg ctccgagcca ggccctgctg caggggtggg
 22561 ttgaattgag ggaaaaaaag taatcatatg tgagagtttg tatgcgtgcg tgcgtgcgcg
 22621 cgcattgtgt tgttggtct tggacttggc agagctagag cgccctcccc tggggcagga
 22681 gcaaggcagt gcttggcctc cacctgcctc caggccaggg atccagggaag cgggatctgc
 22741 atccggttga cccgctcttc cttagagggtg tcttggtgac agccattcct gaggcagaga
 22801 aagctaagag gcattcctca cgtgacctgg ccttgcccac ctcttctgga cgcgggagat
 22861 caggctggga tcacaagggt ctgcttggga gccaggcgcc tgcttgctag gaggtaggac
 22921 atctgcccag gcttaggtgg gggcctgtgt gaggagccac gtggctaaca ggtgaactca
 22981 gaggctgctt gttgcctcag tgtgaccaac agtgagacct aaacacagcc tgggaatttg
 23041 aggacacctg acaagaaggt ggggtggagg gggcgtctgc tgggccgggc agctccttta
 23101 ggtggggagc agggcagagg cgctgccttc actgcctgtc ctggtgggtg ggcgtgtgtg
 23161 gcagcctccg gccctgcctc ctttgtgcac agctggggga ggttggaggg tgggggaggg
 23221 gtgttaaggt gcacacagcc ctagggtccc tcagagaagg ccaggagctg cccagggtcc
 23281 ccagggaacc tggctttctc ctccggttcc tgcagctagg ctctgttac aagccgtcag
 23341 ctacatcac ctctccacca aggtgcctcc ttgctgctgg ggcaggaggc ctcacgcaca
 23401 ggcggatgca ctcacgttcc ctctctcacc cccacagcc ctgctgcttt accgtgtctt
 23461 caggaacgaa gctaaacgca ccaccaagg cctgcacggg ctgctgcaca tctttgcgct
 23521 cgtcatcgcc ctggttgggt agttcccggg cgcgcccttc cccgccacct gcctgcctct
 23581 tcagggtatg caaacagccg cttcacctgc tctgttccct cccagagct gtgatgggac
 23641 cgccccacc ccaaacatcc cctgcagggc cactagggtg tggcagccct cgagctggga
 23701 ctaaagccca gaagtccgc tagctggttc ccctgggtca tcttacacct tccttttcca
 23761 catccaaccc tgctctcata tgacctgtct ctggcccagg cttgggtggc gtgttcgact
 23821 accacaggaa gaagggttac gctgacctgt acagcctaca cagctgggtg gggatccttg
 23881 tctttgtcct gtactttgtg cagggtgagtc cttccaacac cccgggctg gggccacctg
 23941 ccagggaggt gggaggagga ggggagctgg gctgaaatgt acctcatgga agggcctgat
 24001 ttctgggggtg tgtgcagggt agagagctgc cttcccaggc ctgtgcgggt gcaaagctag
 24061 gattggcggc caagggtgcc cagctcccag ggcgcccatg gctgactcag cacttttggc
 24121 cacaagccca gctttctgag tgtgccaagg cctcaagcgt tgggggaccg gtcccttgtc
 24181 cctaagcgt tagtgctcct cccaccactg tgctgaggag gaaggaaacc aggcagggct
 24241 gaggggctca cagtcgccac gtgggcacgt ggggtgtggc atcctagtgg ctggtgggct
 24301 ggggtgtccg ccgcccgtgc ccggaaccgt ctcctttcaa atcctagtgg ctggtgggct
 24361 tcagcttctt cctgttcccc ggagcttcat tctccctgcg gagcgtacc gccacagca
 24421 catcttcttt ggtgtacca tcttctcct ttcctggggc accgcccgtc tgggctgaa
 24481 ggaggcactg ctgttcaacc cctgggtgag gtccctgggt ggagagggca gggcctgggc
 24541 cacccttgca cagacctcac cctgccttca gcttcccag ctgtggcttc ctgagccgc
 24601 tctcgtggcg tcacaactgg tggtgtagt tatgcttgc aagatttggg tgcttggggc
 24661 ttggcttttg ttagctttct tgattttacc ctttcaaaga aacttctggg ctatgggac
 24721 cctatttatt cccaccacgc agcaggatct gcaggacaac tgcttagagc tagaatattg
 24781 atctagggtt ttacattgcc catctctttt tgtctgtgag ccatagctgg agattgctgg
 24841 ttgggggcgg ggggatgggt gttctcttca ggcagggcag ggaggcaggg gctggtgctg

FIGURE 3 (continued)

24901 gaatccccat ggcattcttta agggcccagga tacaaaagggc atttgcccta attgtgaccc
 24961 cttggggcagc ttctcccttc ctctcaccoc tgcaggggca agtatagcgc atttgagccc
 25021 gagggtgtcc tggccaacgt gctgggcctg ctgctggcct gcttcgggtgg ggcgggtgctc
 25081 tacatcttga cccggggccga ctggaagcgg ccttcccagg cggaagagca ggcctctccc
 25141 atggacttca agacgctgac ggaggggagat agccccggct cccagtgatg cggccggccg
 25201 gccctggggg ttgcgggggt gtcttcttgc ctgcccctgc tgaggcgtct tcaggactgc
 25261 aggcctccgga gagtggctct ggcagcaggc gggcgcggtg gtgcagctgc atctgtttga
 25321 gtgctgcttt ctggggctcag gtctccgcct cctctgcttc tcccttctcc gctgctatag
 25381 accagttcat tgtgtgtggc tcccgtgtct ctgttgcccc cttcagtga gaaggctttg
 25441 ggtaggactt cgggtgttcg gtccctggctg cagagcacag atctttaaag aagcgagaga
 25501 ggaggcccca cctcctggc agcagatgcc tggggcaagg ccaggggaaa ctgggggggc
 25561 ctgagggaca ggcctggaaa ggcacgatg gctgctgaat tcaacaagg agtccctcca
 25621 gcctgaataa cacgtggcac aaatgggccc ggcctttggc agaggagcaa gtgatatgat
 25681 gtgtaaagta tgttgggtgt gaaagcaagg ttccccagga gaggggaggg actggccccc
 25741 gggaagctct gagatgaggc tgtggcccag ctgtagtctt gaccttctc ttctttaacc
 25801 ctttagccct aggatggctt tgggtggaga ggggatagaa gcccatgact tcagacagac
 25861 tttctcttgg cagatgcagg cgggcctcct cccaggctgc tccagacatg ggggttgggg
 25921 atggggggga ccttgacgcc ccttctgct ggggtcctc ccttgtagca cccccttgc
 25981 ggctcagctc tggtttcttc tcccaggctc acccaggctc tgctcaggct gggaggcaga
 26041 gggcacaac cttataattt tttaaataaa aaaccgctg tgctggctgt ggccttctc
 26101 ccctgggggt cgtggagctg ctgcctctgt tctggaggac gagccttctc ccttgtagca
 26161 gcccattctt ccaggaagtc aggatggagt cagaacaact acagtcatcc cccgtgggtg
 26221 ctgcacatca ctccagcccc ataaagagtg tcatgttagc tgagtaccca tttggcttcg
 26281 gcttggaat agtgtgatta gaacactgat cgtgtgcgag gccaggagat caagaccatc
 26341 ctgactaaca aacacagtga aaccccgct ctactaaaaa tacaacaaaa ttagccaggc
 26401 gtggtggtgg gcgcctgtag tcccagctac ttgggaggct gaggcaggag aatggtgtga
 26461 acccggggaga tggcgcttgc agtgagctga gattgcactc cagcctgggc gacaggctca
 26521 aaaaagaaaa aaaaaagaac accgatcatg tgcttcttgg atctggtgac tgttctctcc
 26581 ctgttttctt ttcttttttg gtgtttgagg agcatggctt agcttgagac acacacagac
 26641 actgtgtact tcagtgaagg gcttaataa cagtttccaa acctgacgac tcttcttctt
 26701 gtaatggctg cccttttctt acctgaggcc gtcttagaga aaggggccag tctcctctaa
 26761 tgctcagatt tcccatagtt ggcttttgct gtgtctctg cctcaggcag tgtcatttct
 26821 gggagcagggt ggttgtagtc caggccctc cccagcaggg tctgcccagg ctccctcag
 26881 cccctttccc cgcctcctct cagcctgtcc ggatgacagt gtctgcttcc tgtttagact
 26941 gtacactctt caggggtagg ggtgcctgca gttcttcaat cagctggcac acactgtat
 27001 agtgaaatgt ttacatgtgg gaaaactccg ccttagacaa actaccaaag tacaatcgtg
 27061 tctctctcta gccggaatgc tacagagaga aatggaacct tagatttgca acaaaagtct
 27121 gtaaaactgt ctgtttgcca aagtgaacac tggatgacta aggagctgaa gaaggccccc
 27181 agaagcggat ttgtgggtgg ttattttatt ttgctgtgg ccaatcttct gtgaaatata
 27241 atgtgctgtt ggtgcaacag atgattcaat aaatgtctac agcagacctc tcgctgtta
 27301 tcttcttcta ctgtggtaat aaaaggagcc ggagctttta gcagccagac acatgacgtt
 27361 agctctaggc ctgagagaaa ttgaatatcc gcaggctggg cacagaagg aaagcgatta
 27421 gtgatattga tcatggccta ggggctgaaa agggccagcg gttgtccagt ctgacccag
 27481 cagaggcagt gttgtttcca catggttaga taagccctt cctctcagcc tgagagggtg
 27541 gcctggatgg tggagctgca agagcctgat aagagccttg gcaaggaagg tccccagtg
 27601 tttaatggac ccttttccct ttgaaatcag tctttttgat ccttaagaag aggagcaaag
 27661 cttttggaac gagctgagat tccactttag atccacgtac gtggctcagg cagaagggtga
 27721 gtttttggca aatttgggtg ggatcgctact gtgcgctttg tgcctgttca cttaaagcag
 27781 tggccgccaa ctttttggc agcaggaaca ggttttggg aagacaattt ttccacagac
 27841 cagggtggg ggtgggggat agttttggga tgattcaagc acgttacatt tattatgcac
 27901 ttttatatta ttacattgta acatataatg aaataattat acaacttacc ataattgtag
 27961 atcaatggga gccctgagct tgttttctg aaactagaca gtctcatctg ggggtgatgg

FIGURE 3 (continued)

28021 gagacagtga cagatcattc gattctccta aggagcatgc aacctagatc cctcgcatgc
28081 gtagttcata attaataagg tctgcaactcc tatgagaatc taatgctgca gctgatctga
28141 caggaggcgg agctcaggtg gtcattgctca cccgctgctg ctcacctcct actgtgcagc
28201 caggttctaa cagccacaga cccatactgg tctgtggccc tggggctggg gacctctgac
28261 ttacttaaag caatttaaaa actcaccaga gctcactatt taaagggacc caacagcaaa
28321 tcctctaata aggtaacagg agtccctgct tccccgcgtt ggtctcaact ttgtcttctg
28381 cattgtagct ggtctctaac gtgtaggagc cagaacggag aggtctttcc ttagggcacc
28441 tgtagagtc ctcctgaatc aaggcttcca tgtggacctt tatttttatt ttattttttt
28501 gagacggagt ttcgctcttg ttgcccaggc tggagtgcaa tggcgcaatc tcagctcact
28561 gcaacctccg cctcctgggt tcaagcgatt ctctgcctc agcctcctga gtagctggga
28621 ttacaggcat gcgccaccac actcagctaa ttttgtattt ttagtagaga tgatgggggt
28681 tctccatggt ggtcaggctg gtcttgaact cctacacctca ggtgatccac ccgccttggc
28741 ctcccaaagt gctgggatta caggtgtgag ccaccacgcc cagctgagtg tggaccttta
28801 ttactgaaa agcattcaaa gcacaaggct tgatacatgt cacaactgg ttctcagtc
28861 agcatctcat ttctgttttt tttttttttt tttttttttt tgcaccagcc tctgaatctt
28921 atgggtctct gtgaatattg aagtgatccc agtcaccaag ggatgatgcc tccctctcca
28981 gccagccact tcacctcttc ctctacgaat ctctggctgg ataatagcag ggacctcatt
29041 ttcttactgg ggtcccaaag cgactcctct tgactgtggc atagagttat ttctccaaac
29101 aagcacgcgg catttcccaa gccatcctcc tggaccagc gcctgcactc cgtggggcgc
29161 cattcgggtt gcttgcctct ttcagaccat cccttctgag agaggaggca cgtgtgtgga
29221 gggaagagct gtcagtgtgg ctgattcaga ggcctacctg tgcctctgtg accctgagca
29281 acttcagctc tcaggatctg cttctgcatt tgttttggag acagcagtg cgtctgtcga
29341 ggtgtgagga atacattagg gaacacatgt gaagtcccta tcacagtgtc tgggacacaa
29401 tggacctccc aagaggatgg cctgttagaa tgactctga gcaccttctc ttctatgtgg
29461 gccctctctt catcacaggg ccttcagac atgatactg ttatcagtgc cccatcttat
29521 tcctgagaat ggaataaact tccccgctgg ttcgctacc cattcccagc cgaccgcagg
29581 ctgaaagagg gtgactccat tccccgctgg ttcgctacc cattcccagc cgaccgcagg
29641 ggagtttggc caccatgtgc acgtgcgtac tgtgtctgcc tgcagttacc aaaaggtagc
29701 catgagcaga tatccagggg aagaaagtct gacttactta gtgcttcgga ggatctacac
29761 agacttctgc tgagtttgc ttttgcctct actctgagta gctttttatt aagggtgagg
29821 gtaaattctt tttaagaagt attaataatt taaatgaatc actccttttc ctttctcca
29881 atgtcccagg acttcttaaa aagctggggg tttggccagg tgtgggtggc catgcctgta
29941 atcccagcac tttaagaggc caaggcggga ggacagctt aggccaggag ttcaagacca
30001 gcctgggcaa cataacaaga ctccatctct gcaaaacaaa acaaaagtta gcagggcgtg
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30121 aggaggttga ggctgcagtg agctatgatc acaccactgc actccagcct ggggtgacaga
30181 gtgagactcc atctaaaaac aaaacaaaac atctaggtcg ggcacagtgc ttatgcctgt
30241 aattccagca ctttgggagg ctgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
30301 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
30361 nnnataaaaa taaaataaaa taaaataaat tattatgcac aaagtagtag agtaagagca
30421 gtaatgagtc caggaagtgt tgttaccatc tataaccctt cttcatctga cacaaagtag
30481 agatcgctga aacctagcag aatgaaaacc atccctaaag acaatgaatt agaaagtctt
30541 ggccaggcac ggtgcctcat gcctgtaacc ccagcacttt ggaaggcaa ggtgagtgga
30601 tcacttgagg tcaggagttc gagaccaacc tggccaacgt ggtgaaacct catctctact
30661 aaaaatacaa aaattagctg ggcattggtg cagacacctg taatcccagc tacttaggag
30721 gctgaggcag gagaatccct tgaaccggg agtgggaggt tgcattgagc caagatgagc
30781 caagatcatg ccaactgcact ccagcatgga tgacagagtg agactctgtc tcaaaaaaaa
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30901 gtcaggcaga tcacttgagc tcaggagttt gagaccagcc tgggcgacat ggtgaaaacc
30961 tgaatctaca aaaaatacga aaaaattac ctgggtgtgg tgggtgcacac cagtgggtcc
31021 agctacttgg gaggtgagg caggaggatc gcttgaacct tggaggttga ggtcagctg
31081 agctaaaatc atgccactgc actccagcct gggcgacaaa gtgagacttt gtctcaaaaa

FIGURE 3 (continued)

31141 aaaaaaaagt acttttccaa aatacttatt caggccaggg gcagtggctc acacttgtaa
 31201 tcccagcact ttcggaggcc aagggtgtgtg gatcacctga ggtcaggagt tcgagaccag
 31261 cctggccaac atggcgaaac ctgggtctcta ctaaaaatac aaaaattagc cgggtgtggt
 31321 ggtgtgcacc tgtaatccca gctactcagg aggctgaggc aggagaatca cttgaaccca
 31381 ggaggtggat gttgcagtga gccaaagatcg tgccactgca ctccagccag caacagagt
 31441 agactccatc tcaaaaaaca aacaaaaaaa acccgaaaat acttctccgt atcccactga
 31501 aacactagtt aagggtattct aaggtaactg agagctaaat ggtgatttgc cactcctttg
 31561 gcttgggtggg gctggaaatc ccttttattc tcccatgttg taatgagatg tctttgctca
 31621 ctcttttttt tctttttctt taaatctcag aaggaggccc caaccctgag cacaacagca
 31681 acctggccaa tatcttagag gtgtgtcgca gcaaacatat gcccaagtca acgattgaga
 31741 cagcactgaa aatggagggtg tgtactgttt gacatgcttt ttattgatca cagcctctac
 31801 cgggctcatg tctggatggc caacaaacac actgtaaatt atcagagggg ccaagtgcag
 31861 tggctcacga ctataatccc agcacttttg gaggctaagg tgggtggatc acttgaggcc
 31921 aggagtttgg agaccagcct ggccagcatg gtgaaactcc atctctacta aaaatacaaa
 31981 aattagctgg gcgtgggtggc atatgcttgt aatcccagct actggggagg ctgagggtgga
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 32101 agcctgggcg acagagcgag actctgtctc aaaaaaaaaa aaaaaatta tcagagagaa
 32161 cggtagcaat gtagttgacg ccctcagcct agagtcttg gatgatgag ggccatacag
 32221 cattggttct aggagcacia ctgggagttag gatgatgag gtattataga aagaaggggc
 32281 tcaagaccgg gactgctcag ccaagttgta gggagatgag gtattataga aagaaggggc
 32341 agtgtgggag aaagccctta cgtaggttgg aggaagtgtt tgtttttcag atgtttatgc
 32401 cctaaaggag aaaagccagt agaaagggag aggatggggg tgatagagat ggtggggagg
 32461 gcaggtatat agagtccacg taaggggtaca cctttctctg gggcaggtag ggaggctctg
 32521 aggaagtaat agttatctta atagctcaaa attattgagt gcttctctga ggctaagcat
 32581 ggataaaaaac tctatgtgtg ttatctctac gaatcctcaa aaccaccgta agtagaaact
 32641 gaggcacagg aatgttaggt gagttgactc aagtcgcata gaaaatgaca gacttgaaac
 32701 cagatagtca gacttttagg cctgtgtctt aaccgttatg cttattgcct tcatgtaggc
 32761 catggtgcag agaaggtggg ggagacagca actattttcc ccacctagtg gcccttttta
 32821 cctttgtgaa agaggaaggg agaagttatg agttgagaat tccctggaaag ttgcaggaca
 32881 ggggtgcttg agtggggaat attgaatata tggacaaggg atgagtaggg gcatgggaagg
 32941 tccagaagag attagtccct agagctctgg attaatgtt tcaattttga gacctgctg
 33001 ttttcagcag ctcttacgac aaggcctagg tgtgtgatat ttcacagcag tactcagcag
 33061 cccagggtag ggaccttagg acttgaccgg tgggtttctt acaggatggg ggtgtaggag
 33121 gatgagtctg agtgggattg ggtagggaact agatgtggca tttgggtagg gatggtagga
 33181 agcaaagctg agagatggct gatggattgt tcagggaccg gagaaacaga ctccctccaa
 33241 gttaggggta gtacttctg ttacctcaaa agttggttag aggggtggga caaaaaataa
 33301 gattgagagc tcaggctcca gcttagagag cccatcccat ggagttagtt ttgcgatact
 33361 tgtagttctg ggctgacatg tgggaaggaa ttgggaaaca ggaaaatgtg cttgtgttgt
 33421 ttattgcaga aatccaagga cacttatatt ctgtatgagg gtcgaggccc tgggtggctt
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 33541 atcctgaata agaaggggta agtgtgcgtc tgggaggagt ggtaggggac agagccttta
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 33661 ttttgttttt ttgttttttg agacggagtc tcaactctgt cgcccaggct ggagtgcatt
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 33781 gcctcctgag tagctgggat taaagatacc cacagccatg cccagctaat ttttgtattt
 33841 ttagtagagg tgacagggtt tcatcatggt ggccagactg gtctcgaact cctgatctca
 33901 ggtgatccac ctgcctcagc ctcccaaagt gctgggagcc accatgcttg gccatgttcc
 33961 aggttttaag cacacttgct ccttagcaga atctaattag ttaattgact tcccttaatt
 34021 gtagtttcta ctacagggat cccaaagact tgttcatcgg atgtagaagg ggatctttgt
 34081 cctattatcc ccatctgtag ccatataatg cctaagtctt aaaatgctcc accaggactg
 34141 gcatcttaat ggcacaggaa attatcagct aagtctgctt cctcccaact gcaatcaggg
 34201 cagaaaaatcg agcgtgggga cattcttggt ctgttccctt acccagcagc agctgcattt

FIGURE 3 (continued)

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34261 tctccttgag gatgcgatct gctccatgtc tgtgtgtact tcatagactg ggtaagaaa
34321 agacagtgat agaagatgatga gctttatgga ggctgagctt ctagaggcat ccactcatgc
34381 cagcctgttt ccttcctgt cagaggagtg atggctgtag gagctcgtca ctcttttgac
34441 aaaaaggggg tgattgtggt tgaagtggag gacagagaga agaaggctgt gaacctagag
34501 cgtgccctgg agatggcaat cgaagcagga gctgaggatg tcaaggaaac tgaagatgaa
34561 gaagaaagga acgttttttaa agtaagcatg aaaacatggg tgtttggtgg gcttcgggga
34621 ggacctgat agatgcctta tgcattgcctc ttggtttctt cttcatgtg cccagggtta
34681 taggtgagac agttcacata ttgtacaaac atttattaag tgaatactga ataggaccng
34741 actctagtga ggactatgag aaagaaagag tcaaaancat tgaaacgat gtcctgcca
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34921 tttatttgtg atgcctcttc actgcaccaa gtgaggaaga agctggactc cctgggctg
34981 tgttctgtgt cctgtgcact agagttcac cccaactcaa aggtgcagct ggctgagccc
35041 gacctggaac aggcgcgaca tctcattcag gctctcagca accacgagga tgtgattcac
35101 gtctatgata acattgaata accaggctac atgtgcccc ggggttcctt ctagaaatgt
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35701 gaacactagc tatataccaa gaactgtact tatctagagc ataagctatt caactgggtg
35761 cctgtgttag atcctgctct agaaggtagg acctgaacac aggactgctc tttactggag
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35881 gtgcccttct ttcaccaaac agcttaagggt tctagcccag taggaaatca agtgccagtg
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36061 cagcttgggt gacagagtga gaactcttct tttttttttt tttttttttt tttttgaggn
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36301 aaatctgatg tcaagaggaa gtggtctccc tctctgcttg tccctgaagt cccactccct
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36841 ggcgtctctt gtccacagct ctcttgaggg cctaccacag tgtccaactc tgaggagag
36901 aggtgctcaa taactgacc gagcaaataa atgcacaaag ggggtgctct gaatgtcca
36961 caagagacca agcaaatcat cgggaatttg gccttagccc taactgccc aatctctct
37021 gagggagggt gccccatca ctgcatcctc aggagggtaa gcttaaaaag cagctcctg
37081 aagaggctgt aatggaagga gaaaagcatc acaacaccat ggttttccaa gtgttagcca
37141 tttataaata agtacatttg ctttcataca tacagttcct tgtacagatg acaatctgta
37201 tacatggggc aggaaaatgc attcatttga acttttcaca tctatctcac acagctcaca
37261 tgtacagaca ataaaactgc tcaagcaagt acagcaaagg aaaatgtctt tcttatata
37321 caggggtaga tgcctctgtg ggggtgtggg catcccactg cagggcttca caactgtgtg

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FIGURE 3 (continued)

37381 gtgttcaata tatcaggaga gagaacaaac atgcattgga taatatactg tacagagaaa
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 37501 cagcaagtgt cttgaaagga cagcaaagag gaggaagaat caaaatcata ttagtacaaa
 37561 tctactcttta attgtagact gtacatgtct gtactaatta aaatcatctt ggatttggag
 37621 gagacagAAC agagacaaag atgctgtgct agatggaaag gaggccacgc ctgaaaaggc
 37681 acctgccctg agcctgatga ggaactggcc tctactagca ggaatcagcc aaaggaaaca
 37741 aaaaacaaaa caaaaccaga acaggaagtG ttaacttttt ttttcccccc agtaaatTgg
 37801 aatgaagtgg agatctggag ccggcatctc gaattttcca gaattaactc ttgtctggcg
 37861 tatgcaataa ggcaggtaca ttcaagtact gaattttcca gaattaactc ttgtctggcg
 37921 ctggggacca aagggttgga gttgagcccc ctctaaccag actttctggt tagcgattag
 37981 caaaagaaaa attcagccag caagtgtctac aaaaacaaag cagctagggc acttccggtc
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 38161 tggggtgagg aaacatgaaa gtaacacttg atttttgggt tccaattatg cgttcatttg
 38221 gtactgactt tcaaagctct gactgtggcc accatgtggc cacaagcatc tcagggtggc
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 38941 gaactgacag gagggaggct catggggaag aaggggcttc tccatgtacc catccctcta
 39001 ccagagcaag ggagctctgg tcaaccttct tccagcctct gcctggctga agtccaaagc
 39061 atgtagtgtt caaagagttc gtcttgaca actggcacag atgcacgaag accccttcca
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 39421 taaactacta tacaatatta aggactgaga ataccttct ctaagctgtt ctgtttacaa
 39481 taatttagga aaagtgttta ataatccagg cttaactaca ttagcaaact tgtatatctg
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 39661 ctctattaac ttgggacttt aatagtgcac gtctgcaacc cggacaagat acaacagcag
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FIGURE 3 (continued)

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40681 tcaaagtgga ccacaggctg accagaagca tgccaagagg ctactgtgaa agtaacctgg
40741 atcagcctgg gaactggatt tgggcacctc caagaagagg tgggnagana acagactgca
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40921 ctngggacag tttggcttac tggcatatgt gtgtgcatgt gtgtgtgtgt gtgtgttagt
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41161 catcacgccc ggctaatttt tgtatttttg gttagagacgg ggtttacta tgttgccag
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41281 attacatgca tgagccactg cgcccagcct aagcagtgct tctgaacaca gaaggctgca
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41461 agaggggagcc tggagcagga ctctcttaaa gggagatggg ggagcccaga acaaatgaag
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41581 gcagtggacc catgtggccc gaggtcttgc acagtgttc gtggaactgg aactggagca
41641 ccagactgag gaagtacctg gttgagaaac gtgagggcag gctggggagt ggagaccagg
41701 agtggcaaac tcagagccac ttgggaccag gcagctctga catgcagtgg ccacgagggc
41761 cccatgtcag cagtcaactg ctgagcggag gctccttggg cagggccagt gcttgggctg
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43561 agccccaggg ttccatcagc tggggtgatg ggcagggctg acagaggcct cctgcagggtg

FIGURE 3 (continued)

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 44641 caccagggtc cattttttcac agatgaggag actgaagcct agaaaggcta aaagacctgc
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 44821 ccttcagat ggtgccgtca aagaccttcc agcgaacacag gtccatcagg tagccaaagg
 44881 ggatgaaggc gatcttctcc agggcaatat gcatcaggaa attgacctca tctctggga
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 45961 tgggttggcc tcattagcat caactttttc cagaaactgg gtggggcagg tggcagcgcc
 46021 aaggnagggt agaagtgtc cagcctcttc caacattttc tctggcttcc agtgctatgg
 46081 gagaagaggg ggtgtggggg gcgctgccct gtttgtccaa ggatgccaat ggggaggggc
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 46201 tcttcttcag gaagggcagg accgggtcta agatgttgac ccaggactga gccaacgtgt
 46261 tctctggaag aggaggagag gggctaagag gaggtggag acagtctctg cccttatctg
 46321 gcactcacct cggccaccag cagggccttt acccaggagg tgggcaggga tgggccccct
 46381 caggctcgat agctcgggccc catagtggcg gtggagggcc ctgcgcacgt aggtgtgcgg
 46441 gttcaggtag agtggccgca gctcctggaa tagccgctcc aggtcttctt ccagggtatc
 46501 cgactcatatc ttggagtggc acaaggcccc catgtctttg tnaacctagg acaggagaga
 46561 ggactcacca ggagctcacc atctcaccct ttagccatgg cctagctgac aggataccca
 46621 gacgccttct agggaaagcca ctcaacctcg ctgaccgtct gggtcttctt tggcaaaacg
 46681 gggagaatac ctgcccattt cagaaaggca ctgagcaaag tccatgatcc gagctcccca

FIGURE 3 (continued)

46741 ccatgcctgc aaggccctgn agtccccctct tateccacct catccttagc cctgtggcca
 46801 cctgggcttc tttcaggtct tccagagcac cggctccctcc tgcggcgagg cctcntgect
 46861 aggetgctct tctttcacat cttgtctccc gtcttttgcc catctttcag gtcttggata
 46921 aatgtcagag tnccttccct gtccacttgt ctgcagcagc ctcttctcat tctctttctc
 46981 agcagcctct tectattccg catcacccca gatggtagtg agagacaggt gtttactgaa
 47041 tatgggtctgt ctccctgcag gaccgtaggt gcatngangg gcaggtgcct gtcttttcac
 47101 ctatgtgtcg tcagaacctc cccagcacct agcacctagg tgnctctatg aatatttggg
 47161 gagcccagct gcagggtca taggtcctgt ctccnagggc cctacggcca ccttcaactct
 47221 gggaaagctc agctttgccc ctcccttgcc atcactccaa gctctgtggc atccccatctg
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 47461 cccacttgcc tcttccctca cctcctggc aataaggagg ggtgggtggg ggctggggagg
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 48241 aaaggacaag aagcaagaga ttcttgctg gaggaagatt agggcttcca ggaggcccag
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 48841 cagctacaga atgttagaac tggaaatccc catccacctc ctggtccaac tgtccccatt
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 49081 atgaggccct cctccatag gctgggacca ctcttgagca ggtggatggg atgatggatg
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 49381 gactgggtgg ggtgtggaga ggtgaggcgg gcacctcca tncagggtg catgcccattg
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 49681 gataccacga ctagagaaac tgaccaata acccccatt atgatccatt atgggtaaaa
 49741 tatatttata acatgaggaa agaaagaaaa aaatagtac acttctgggt aagctgatcg
 49801 actgagctca caggaaagtc tcccttctg cttcaagcat gtagacagtc cattctcaca

FIGURE 3 (continued)

49861 ttgctataga gaactacctg agactgggta atttataaag aaaagagggt tagttggctc
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49981 tgggtggaagg cgaaagggaa gcaggcacat cttcacatgg tggcaggaga gagagagaag
50041 ggggaggcgc tacacacttt taaacaacca gatcctgaga actcagtcac tatcacgaga
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50161 gaggtcaggg tgcattccatc cagagagctg cagcattggt gtggggggat agctgatccc
50221 gatggaaatg gcgtctctgc caagctggga gccctgcaa gcgtcagggt catgcatggg
50281 attgtgcagg ccattccaac ccaactgaag atggctgata ggtacagttt accaagtata
50341 agagaaaatc cagtttttagg agggacaata ataattacca acctcactg tgggttggtt
50401 ccagggtgcc gggaccatct gggggctttc aacatatgaa tcctcacaag aaacctatga
50461 ggtaagtact gtgatcaacg ctcccatttt acagatgagg aaagagagg acagaacggg
50521 tgaggaattt gctcatagtc acacagccag cagatgggtg aagtgggact caaatccata
50581 tgggttggtt cagagcttgt gctaaactgc agacacaatg aatgaagcag actgcaatgg
50641 aggaaggaca agtagcagag caatccaaaa gggacttaaa atgcaggctt ttatgccatg
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50941 tcgggagggt gaggtggag aatcgcttca cctgggaggc agagtgcagt gagccagatc
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51061 aaaataaaaa taataaaaa gtacatttaa caccttatct tggacaacgt gacagtcag
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51241 agcacaggga acaaaagaaa aaataagcaa attgaacctc atcaaaaatt taaacttttn
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51361 tctgactctc agatcnacga cgaatnaanc gccagaaaagc aaaaagaaat nnnnnnnnnn
51421 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ccccgcctca ttcttgtcta
51481 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gaaagaatta ccccgctca gccttgccc
51541 aagccccctt cttgcacctc ttctctcccc cagtcctgga gctggtaacg gccttgccc
51601 catgagcagt ttgccttctt gagtcaactgc ctgtgtagta catacctgac cgggagtcca
51661 aaccacettg gtgctctgaa gtccactgac tcatcacacc ttctttagcc tggctctct
51721 caagggcatt ctgggcttgt aaacagacat aggaagcctc tgtttaccct gaagcaccac
51781 tgtccagccc attgggtccc actggcagca tggtagagct gagagaaaaca ggctctcagg
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52561 caggcctgaa ggatgatggg tttgtctct tgggttctca cctgcttgag aagtaaaaca
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52861 ttgactgca tctgttgag atacaaagc agcagttctt ggtcagaacc ctcctctgct
52921 tttcattgtg tttgataatg gttactgggt cttctctca agggtagcaa ggccaagctg

FIGURE 3 (continued)

52981 atggctgctt gtttaggagg ccatcagttc cttcctgtgg agaagggctc gaaatggaag
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 53101 ctttcctgat ctgcacctac gcctggtctg tatggtggaa tttgtcagct ggaactcaga
 53161 aacaacaact tgaaaaaaa ataataatta gaacatattt gcataagata gctatttact
 53221 ctggaaacca acaacttttg agatttccct tgccctgtgg acgcccagct cctgtcatcc
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 54661 gttgtgggtt tgttacagag caggagaagc agaggttatg acagttagtc agactttccc
 54721 cctccttttt ctcttttctc tcccccttgc ttttccactg tttcttctg ctgccacctg
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FIGURE 3 (continued)

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57181 ggaaaactga gagacctgg ggagaagcgg ggtggtgtgt ggctgtccaa atgagcagga
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59101 aaaaaaggaa aaagacaatt acacaacaag aacatcagtg aaagcgattg tctcctggaa
59161 aaagctgacc agtgtgtctg atctccttgg gttaaagcac acagcacgaa aatctcctcg

FIGURE 3 (continued)

59221 ttggcatctg aagagagggga gagagcatgt ggctgggcac agacaagaga aactgaagtc
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 59401 tgtggaaacc aagcctgaaa atgtgcagtg aaaacatag ggtctcactc caaca^{aa}acg
 59461 tcttttaaac attagactcc acgaacggtc tctttggttt gataggggat gtctgccctt
 59521 gccgagagtc tcgggacagc tgccctgtaca ggttgctctg gtatgcctga gccacaggta
 59581 gagtccgagc taccttcacg tcgggatagg aggaggcctg gctgactcgc tccaagagg
 59641 ctccacgaga cccgttagcc agcatcccat gggggctgta ataatcgctc tccagcaaat
 59701 ggccattctg tgcattgttg gttttgttat aaaaggcaat gttgctgatg gatgatgggtg
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 60181 gtcttctgat taaatgcgac acatcagggg aacctagttg gctggaggag cgctccagat
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 60481 tgactcctat gtctccttgt gaagactggt atttactggc cattgaatgg gctacttggc
 60541 cataggctcc tgtggggatg acgggtgcttg aatggacggc tgggctgggc tggttacttc
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 60841 gaagggggag ggcttgggta ttctttgccc tgtctccca caggaggggg gctgaaacgg
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 61021 acagaactac tggaccggaa gtcaaaaacc tgatgagagc caagagggtga gctggagatg
 61081 taggctgagt cccgatgcgg gggagaggag ggtgggctct ggatgaccgg gagcccctgg
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 61321 atctgtctac actcttcttc cactctcagc agaagtctct ggatctcacg gttgttggga
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 61441 atgtgaacac aggaactgga gttattctga atccagagaa atcaccaaga gctgagaaca
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 61681 ttgtcagtcc angccaggcc ctctgggaag ttgttttggg gcccaa^{ac}ac acaccaggca
 61741 gtatgagagt tgggtgggggt tgtcatttac agggctactg tcaagtagct taggaacaaa
 61801 aaaaactaca tatttaaaaa tcttgcctgat ccagcagaaa ttttcttta tattctcaat
 61861 atttttagctc caaatttcag gctgttcta ctctaggcaa gaacctgtc ctctgccctt
 61921 tctaaccctc atctctcaga attgctgtgt ctccatttgc tctatcaaag tggggcaggc
 61981 attaggcttg ctgactaggt cactcggggc tggagctgag ctgactccaa ggagactcta
 62041 atttaca^{aat} gaagaaatga actgtcagag acattcccat cttctctact aatatcacct
 62101 gacaggggca actgacctg tgaaaaagga actnaccag aggnaangga gaatttcagt
 62161 cagatttctg tgaggacttc gttgccccag ctaggtaaga gtgcgatcac tgccaccacc
 62221 atcactagcc tcaagctggg tgtgattttc gggaccatgt gccctggcc atagcagtga
 62281 acctgaagca gttctttccc atgcagctgg ggaggaggag ggcaggaggc ataagagaca

FIGURE 3 (continued)

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62341 gtgacaagtt acacaaagat cactgatggc aggttctagg ttattctggg agcttttctg
62401 cccagtggcc aaactaaagc agatgggcac aaggaatgtg gaatgggtgt ctcttagagg
62461 gtcctctcca tccctggcagc aaggacctct tgactctgtg tgtgtgtggt ggggtatggt
62521 ttaggtggaa ggggtctga tgccaccaga cttgaggaga gcccagagg gaagactaac
62581 taatccggga ttctctaaac gcctatggga gaaggaagag gaacctgtga tgttaagtga
62641 accatcctac ttccctcta aagcgggggt ggggtgctct gcttaagtga tttctttaag
62701 tcgccgttgt ctctttgtgc tagctgctct ggggttgaa aaatgcctga gatacggcag
62761 aggtctcttg gaagaagctg ccattctcca gtgaaaaagt gttttctcc cgaagtga
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63001 cacctctct ctctctctc acctgctgct gcgttttgcc ncttgntctc gcatagtaag
63061 cttcataaga tttcggtttc agctccaggg ccttagtagc aaattcctcc gccattccaa
63121 aatcctgtca ttacaatagg tgtgcaaatg agtcattgat gagatataaa aaatagacaa
63181 cttgggaata aaacaaatta tttgtacatt ttttgacatt catggatgga acgcctggga
63241 cgctagacgt gcctgacatg gctcaagccg cgtggcctgt ggactgaaag ttccttctgc
63301 ctttgtctcg tgtagcgtcg cgactgctca ctggacttta tctgcccaga atattaaaat
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63421 caaccctttc cagtgaagct cctgaagtta tccatgcatg taggaggcaa acgcacacat
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63961 ggcattgcat tccagaaac cctggaaac agagactggg ggggtgggtg gggaacaacg
64021 ccgactaggc agnccatagg ttttcagtat tcccttaaat actaagctaa aagagaaggc
64081 tttcccttcc ttttagtgtc aaagccacag tatagcatgg tagcctctgg ttatggtcat
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64381 gttcttttgg gaccatcatt attcctaaaa atatgagggc atttttataa agtctattat
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64861 gtgtcagggg ttagggctcg gaattgatga tctaaagggt acacacacaa atctttctgg
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64981 atacatctgt ttggcttggg ttatttttat ctctgagga actgtgagac ctcatgcagg
65041 tagatgtcag agactcctga cacaatctta gctatttcca aaacctgaga gagggttctt
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65221 cagggggmat ttctgacatt ccccttagga caagaaggga catagcatgc tgggatacaa
65281 aaatgaggaa agaagcgaaa agttcgatag cctcaaaaat taaaccttca aaacctggt
65341 ccacccctc tcttaccctc ttcttcaa at gataaggga tatacctgaa attaatagact
65401 acaattcaca tctaattgca actggaattc tagtgaccac tgcctctaca tttcccnnaa

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FIGURE 3 (continued)

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65461 agaccagaac actgacttgg tggatatggg gtgggaaaga tgggtattctc atcactttca
65521 gttaaattat gaacattcag aaagctgcaa agtactcgca gcaatattt ctgtacagtt
65581 tgagatacag attgtactta gacttgattt ctttcaaatt gcaaagtgtca gtgctctgtg
65641 aaggacaacc aagttccaaa tggggcagag gaggatttca ggggcctggg aaaagctagt
65701 gagtgacaca ggctatcagc taccaggatt gcagaaagga gttgggggtga cagggaacta
65761 cgttcatttt cctgcgacac cgagagaggt tgaggaggag agacacctt agttcccga
65821 aagttttcaa gtctcacca aacccttctc tagggaactt cttcagggcg tactggtagc
65881 gctgggcagc ttcctttact ttacctttct aatgggagca caagatggcg aaacacacag
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67081 ccaaagtcct gggattacag gcgtgacacc gcgcccggcc agttttactc ttcttaaate
67141 tgatgttcat ggcataaagc aggagtagtg gctttaaata tctactagcca cagctttcag
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68461 cgcgggaccc ccgacgggc accggccgtt ggttgccctga cagctcctt cgaaaggatt
68521 ctttcttgct attggttatt gcggccgtag cgtctgaaat ctctcgcta ttgggttaa

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FIGURE 3 (continued)

68581 tgtttgtcat tgcaactact cgccccgccc aactctcgga ggcaggcgct ttggcagccc
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 68701 ggggcgtggg tggcctggag gcgagcgtgc tgtagcagcg ggctccaag ttctaggcca
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 69061 cccgcgcttt cctgcaggat ctagaaatgt ccccgaaattc tggggtaggc accgaccga
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 69181 gcaaatgcta atccagcccc aaaggtatct gtgctgtga gttggaaaag ggggaaggcc
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 69301 aggaggtttg tattgaattg ttggatgata acatntaaat actttttttt ttttttttna
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 69781 tgggggtttc ccatgttggc cattctggtg tcgaactcct gacctcaaat gatcttccag
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 70141 acaaaattcg cggtaacctgt cttattctaa taaaaaatat gatattttat cacagatata
 70201 ggaactaacg gggggagaaa attttctctt ttatgacgta tatttccaaa aaaaatttta
 70261 gtttttatta gaaaattgaa tatatattta tgttgttttg aacaactgta ctactaatag
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 70381 atacacattc gttttgaggc agggctcttg tctgttatcc aggtggtggt gcagtggggc
 70441 aaacagtgtc tattgcagcc ttgacctccc gggctcaagc aatcctcctg cctcctttat
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 70561 tcagcctccc aaaatgctgg gattataggc atgagccacc ccatgaccga cctacttttt
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 70741 ggactacagc acctgccacc acgctggct atnnnnnnnn nnnnnnnnnn nnnnnnnnnn
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 70981 ccccggttca aggcaatccc ctccccacc ccccgagta gctgggataa aaggaatgaa
 71041 ccacaacgcc tggctaattt ttgtattttt agtagagatg gggtttctcc atattggcca
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 71641 tgatccgccc acctcagctt cccaaagtgc tgggattata ggcagtagcc actgcaccca

FIGURE 3 (continued)

71701 gccccaaatt ttgtatatgg tattagaaaag gggccaact tcattctttt acatgtggaa
71761 atccaattgc cccagcacca tttgttaaaa atattttctt tccatttaa ttgtcctagt
71821 gttcttgtca aaaacaattg aacataattg tatgggttca tttctggact ctcaattcta
71881 ttccattgtt gagcatattt ttaagggctg tttttctctc ctgtggtaac tgggtgacctg
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72181 gcactaaagc actatacaaa tgtaagctat ttatttctat ttatccttct ccttcattgaa
72241 taagacccta aaaatagaag atatttttaa tttttactca ctgggctcaa ggttgcaagt
72301 tctgtattat tgcaaattcc aaattaatga agtctggctc ttcttatatt attcctgcaa
72361 aaggctgtgt gctcaccccc cggagtggtg atacgagtgt gggctatttc ctctttctc
72421 tgcaccttc cttcgatgag gttttgcctt gtgctaggca ccatgctaaa ctctgagaaa
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72601 tgccctcagc agccctgggtg tcagctgctc cagggtccagg ggaagacttc cattatcttc
72661 caacctgtc ggaagtggag gcggaggctg tttattgctg acacagtncc ctaaccagg
72721 gtctatagac attgtggaaa tgcctggag tcagacggga gaatgaacca gcagaagcaa
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73441 agtcagtgcg atctcactgg aggtgcatct cacaggaacg cggggtcaca gcctcctgca
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73861 ggaaaacaca ggggagtggt gagacctgag gtgacttgga gcaagcctct caacctgagc
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74461 acggtgggca ggtcgggtg ntccggcaa actgcccggg ccccnatctt caaaagagag
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74581 ggctgcacct cgccccctc ncncggcnc ncgcgccct gccggggcg ggcagngaa
74641 nctcggccc gcgcggctng gggactttgg agcgaggag gaagcgggc gggcgggg
74701 cgggggtgtg tcgggtttta ntaacccgca gggcgccgc ggcgcaggag aagggcgaga
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FIGURE 3 (continued)

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 74941 gctacaactc cagcgccgaa caggtgctgt tccnagagcg tggccgccag ctgggcgcac
 75001 gacaccaaca tcaccgcgga gaatgncnaa ggccaggtgg cgcccgggcc cggcgggggg
 75061 cggggcgggc cgcggcggcc aatcacagca cgcgccggc gccccgacag tcagccgcgg
 75121 gcgcccccg acccgaacct caccgcgacc cggaccctc gccctcccag catgcacgag ttggatggat
 75181 ggcccgagcg ccgggctgcg cgcacggcct gcgtcccag gtgctgggct tggctctggg
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 76441 atctgcccctc actgcagggt ggtgccaagc cactggcagg ggactcagaa gtgatccggt
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 77821 ccatectgct gtcactcctg gcctgatgc tctctttgc ctctgggaac ctccaggatc
 77881 tgttttagctg gctgtagcta attagaaatt gtagagtggc aacccccaa ccaattttcc

FIGURE 3 (continued)

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84061 ctgcccctgc ctggatatgt gttgcttgac cgcaggcatc cagggagggt gagtactgca
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FIGURE 3 (continued)

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85861 tacttgggag gctgaggcat gagaatcgct tgagcccagc ctgggcaata cagcaagacc
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86161 gagccctgc aggtgtctgc agcatgtggc cccaggcccg ggactctgta agccactgct
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FIGURE 3 (continued)

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88681 ccacactcgc ctccagggaa catgtgggcg cagacctggt ccaacatcta tgacttgggtg
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89221 gagccagcag ggcaggatgg ggacagggcc agagtttggg actgagtgtc tagagaggtg
89281 ttggcttctg gcaggaaaac cccatccgcc tgatggggac ttctgaagca cgcaacagct
89341 ctgtcagcct ggccgctggg aagtgtcaa ggtcccagtc ctgggtttga gcatggtagg
89401 ctgccccgcg tccctccttg ggagcagccc ctgcatggag ctggcctctc cctgggggca
89461 catgctgtga cacagggagg cacacgagga tgttgggtgc tctgtacaga tccactctca
89521 cccctgacag gctcagaagc tgccttccct ggaggatggc gttttagtta cctattgctg
89581 tgcaaccaag caccacagag cttagcctta cgaaacaanc cagtggaat ggcctttctc tacagggccc
89641 attttatgtg ccaggaattc aggcagtaca cagtggaaat ggcctttctc cgtccagagc
89701 cctctgttgg gggcagctct cacagccggg atggctcaat gggggccata gctccagagc
89761 cccagttctg gctgtcgggt gaggtcctcg gtttttccca tgtggcagat gctggggcac
89821 atgttcccg tggcctcttg gctcacatgt tgggtgcttg gggtgagatg gctggaacgg
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90001 ctcaaggcta ggtccaaaac tggcccagag tcacttctgc catgttttat tggctagaac
90061 aagtcacaag ttcacccaga ttcaagagaa gagaaaaaag tccctcccac ttgggagaag
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90181 agcctgaaac aaaacccgat gggattccct gggctgtgca ggcccttcca ggcatgagga
90241 ctcagccaca gggctngaga nggagacagg atctggggga tgagagccct tgtggggctt
90301 tcccttttat ggggagtcag aggagaagct ggatagatcc ccagccttgt ggcaggatg
90361 ctgggcagct ctctcttccc cctccccgat gagaatgaca gaaaaacagg attcacctga

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FIGURE 3 (continued)

90421 gccaaaaggc ttccagttag atccaagaga gaantttccc gcagtttgaa ttggtttgct
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90541 ccgaggcagg aggtctgctt gagctcaggg gttcagagacc atcctgggca acatagcgag
90601 accccatttc ataaaaata aataagtaaa tgagaacaag gaaggactga cgagagacgg
90661 tagaaccttc tggtttgggc nagctctgca gctgccattc atcctggcca taagaattct
90721 tgggggtgaat aagtttgctg ctgttggggc gcatgagatg cagaatcgcc cactctcacc
90781 cctgacagaa acagttgttt ccttcaggga gcctccatct tgggagataa agcatgtgta
90841 catgggaacc cactggccac acattctcta gaaagtacac aatgtcccag tgcctctaga
90901 gcaagcactt tgtacagtca gaaagcaaca ggtgggtggg gctggagtca ttcaggaaaa
90961 tgggaggcag aggaatggcc tgaacggccc gatgctaggg gcttctgccc ccagattccc
91021 tcttacgcac actcagtggg tgcccttccc ctccctcccc acagtgtgtg gtcccctgca
91081 tgctgcagtg ctgggggtctg ccctgggtat agcaaggccc actgttccct tatgcccagg
91141 gcttctcact gtccctctccc aacacctct cccctcactcc actattccta ggatcaagca
91201 gtgcaccacc gtgaacttgg aggacctggg agtggccccc cagcaaatgg gccacatcca
91261 gtatttcatg cagtacaaag acttacctgt ggccttgagg gaggttgcca accccggctt
91321 ccatgaggcc attggggacg tgctagccct ctcatgtgtc acgcccagc acctgcacag
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91561 ggaggcaggc cacaggggccc aaaagggtaca gcacccccac ccctccacca tcacaggcac
91621 accaggggcca agccgctagg accctgggtc tgacagctgg gctcccttcc cttgcagagc
91681 atgacatcaa ctttctgatg aagatggccc ttgacaagat cgcctttatc cccttcagct
91741 acctcgctga tcagtggcgc tggagggtat ttgatggaag catcaccaag gagaactata
91801 accaggagtg gtggagcctc aggttctgga acactcccac gggatgcggg ctgggggatc
91861 tctgcgagtg tctgcatgtg cctgggtgtc tggatggggc agggtagggg agtgtgtgtg
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91981 ggggtgattg gcacagaggc ccagcacgca ggagaatggg gtgcccagta tagccccaag
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92161 caggactcaa ggtgactttg acccaggggc attgtgaggg gcagtacca cagctttgtg
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92581 tactattatt gaacattgtc tgcgatacaa tttgaattgt acctggaagc ccttctagac
92641 actaaaatgt aggattggag atcgggttaag gtgggaggca gggttgctgg ggcaagttac
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93001 ggagagcact tgctgagggg tagcaaggct gtttgtgatc cgggaggctc cctggggaggc
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93121 gccaccccca gagggctgtg gctgcctctg gccctggcct cccgtgggtc ctggaagccc
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93301 ggcattccctg gagcacctca gataggnctt gacctagacg gtgtccaga gatgacctt
93361 agganacagg ctcctgcctg cctgtgtggg tgggtccctg ggttcccagc cggcgtggc
93421 tctcaccggg gagccagctg gtgtgatggc tagcttccca gcttaatgca gacaattctc
93481 caaacagggg tgggcaaagg agacttggct gctctagaaa aacattccgg attctggcca

FIGURE 3 (continued)

93541 gcagccttca caaagcactt ttaggaaaga ccagggaaact aggtggtaca tgcttgacc
93601 cagcattcaa agtgagaggc ctgtgccact ggctcaggac attttaaacc tcttcagact
93661 ttaagctggg gagaatctc cagccttgac tggcagattt ctaccagggg attcgtgatg
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93781 cggcccattt ggccacacct tgctctact tgcatatacc ccagggatgg agacctcact
93841 gcctccaaag ccacctgcca gatctctntga aggtcttgcc ctgaccccat ggagcaggcc
93901 ctccgtgagtt gtggaggcag ctctgtgggt gggaggcatc tacacaggca cggctaggaa
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94081 agaagggcct gggggccagn tggcacaagg cctcaacca actccgcccc gggccacggc
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94201 gtgccaggca gctggccaca cggggccctc ccacaaagtgt gacatctacc agtccaagga
94261 ggccggggcag cgctggcggn tgagtgtcct ccagccctcc tttgtttcca tngctctgg
94321 cctgcgcccc tgggccttga ggggtctgtc cactggagct tttgtgggaa cacttgccat
94381 tttgagccgg gaactccac ctgcagcgtg ggccaggcct gattgccatc tccttaggca
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94681 anctggctcc gcacggagaa cgagctgcat ggggagaagc tgggctggcc gcagtacaac
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95101 ccacgggccc cagttcgggt ccgaggtgga gctgagacac tcttgaggtg accgggctgg
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96121 tgtaaagaaa ataaaagccc tttatatcaa cgtcaagaga taagccctgt tgacgttttg
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96541 aggtctggct gttacaggcc cattctgtaa ggcaggatgt ggggctgagg tatttttagga
96601 ttgaaagagg gtggaagttt atgattacat aggacaatgg aatttataaa catgtcctct

FIGURE 3 (continued)

96661 aaatggttcc gagtcatcta ccaatgaaga cttcttgaat tatccccct tttcccagcc
 96721 tgttttgaaa gctctttgtt taccagacaa aggtcatcaa tcatatgacc ccttttgct
 96781 tttttttttt ttttaagatgg agtctcgtc ttgttgccca ggctagagtg cagtgggtg
 96841 atctcggtc actgtaacct ccacctcctg gctttcaagc gattctcctg cctcagcctt
 96901 ccgagtagct gggattacag gcgcccacca ccatgcctgg cttaaattttt gtatttttag
 96961 tagagatggg gtttaatcat gttggccagg ctggctctga attcctgacc tcaggtgatc
 97021 caccacacct ggccctccaa agtgctggaa ttacaggcat gagccaccat gcctggcccc
 97081 cgtttccctat ttttatgaac cacagcggtt catgctgcct gtcagagctt ctgggcccgcg
 97141 tgaggtcacc agctttcaac acgcaaagga ctgcaactgca gctgggggaa gagaaactcc
 97201 aactgcatt ggccctggcca gccttacct ctgggctttt gaaatagtat cttttttctg
 97261 tttgttttca aacagagtct cgtctgtctg cccaggctgg agtgctggag tgcagtggcc
 97321 tgatctcggc tcaactgcaac ctccacctcc caagttcaag cgattctcct gcctcagcct
 97381 cccgagtagc tgggctacta cttncaggcg cagcccgccn atgcccagct aattttcttt
 97441 gtatttttagt agagatggag tttcaccatg ttgcccaggc tggctctgaa ctcctgagct
 97501 caggcaatcc gcccgccctca gcctctcaaa gtgctaggat tancaggcgt gagccaccgc
 97561 gcccgcccca atagtatcat tcttttagatg cctgcctctg cctccttggg tgagtgggga
 97621 gaggcagggg atacctggaa agtagcagag gaagaggagg cggtaacagc aggaagaggg
 97681 ccagcccagt gttttctact ggtggccctg aaggctgagc ccatccccgt gccgtgctg
 97741 ccaatgccgc tcttgggaga ccagctctca cctacgctag ccacagggtg tggctgccag
 97801 acagtttctc tgatccccac agccctcccc accctctacc ttcctctgtc tgcctaacc
 97861 ccttcccacc caccctggct tttaacataa gtgaaaaagt ggctaaccac acctctgcac
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 98641 actcagccat ctccctgtgt cgcctctccc tcatcatccc tccccatgtc acatctccct
 98701 cagcctctcc gtgttacctc tccctcatcc tccctqcca tgttgctct cctcctcct
 98761 ctctctcctc ctccctgccc gtgtcgcctc tctctcatcc tctcctcat cctctcctc
 98821 ttcctctct

[illegible]

FIGURE 5

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1   gaattcatgc cccttttgaa atagacttat gtcattgtca gaaaacataa gcatttatgg
61  tatatcatta atgagtcacg attttagtgg ttgccttgtg agtaggtcaa atttactaag
121 cttagatttg ttttctcaca tattctttcg gagcttgtgt agtttccaca ttaatttacc
181 agaaacaaga tacacactct ctttgaggag tgcctaact tcccatcatt ttgtccaatt
241 aaatgaattg aagaaattta atgtttctaa actagaccaa caaagaataa tagttgtatg
301 acaagtaaat aagctttgct gggaagatgt tgcttaaatg ataaaatggt tcagccaaca
361 agtgaaccaa aaattaaata ttaactaagg aaaggtaacc atttctgaag tcattcctag
421 cagaggactc agatatatat aggattgaag atctctcagt taagtctaca tgaaaaggat
481 ggtttcttgg agcttccaca aacttaaaac catgaaacat ctattattgc tactattgtg
541 tgtttttcta gttaagtccc aagggtgtcaa cgacaatgag gaggtgaatt ttttaaagca
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661 ttttaatgaa attagcattg cttatagtta tgaaatggaa ttgttaacct ctgacttatt
721 gtatttaaag aatgtttcat agtatttctt atataaaaac aaagtaattt cttgttttct
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1561 gtaagacgaa atttttgtaa agtactctgc aaagcacttt cacatttctg cttatcaact
1621 aaacctcaca gagatagttt aatagtttag gctttaaaat ggattttgat tattcaaca
1681 gtggccttca taatttcttt aagtgtttt ctttaagtat atactttctt taaatattt
1741 ttaaaatttc cttttctcta gtaaagccag accatccatg ctacctctct agtggcactc
1801 tgaaataaaa agaaaatagt tttctctgtt ataattgtat ttgtaataag cagatgaatc
1861 acatttctta aaatttgttt tagagagggt aagctctgac taggaccatg acttcaatgt
1921 gaaatatgta tatatctctc gaatctttac atattaagaa tgtatatagt caactggtta
1981 aacaggaaaa tctggaacag cctggctggg ttttaatctt agcaccatcc tactaaatgt
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2281 ttatccttta atataatatt ttaagttagc aagtaatttt aattacaatg cacaagcctt
2341 gagaattatt ttaaataataa gaaaatcata atgtttgata aagaaatcat gtaagaaatt
2401 tcaagataat ggtttaacaa ataattttgt tgatagaaga taagactaaa agtgaaattc
2461 gaagtggaga ggacacttaa actgtagtac ttgttatgtg tgattccagt aaaaatagta
2521 atgagcactt attattgcca agtactgttc tgagggtacc atatgcaata agttatttaa
2581 tccttacaat aatcttgtaa ggcagattca aactatcatt acacttattt tacagatgag
2641 aaaactgggc cacagataaa gcaacttgc caaggctctca tagctgtaag tcaaccctac
2701 ggtcaagacc tacaagtagc cgagctccag agtacattat gagggtcaaaa gattgtctta
2761 ttacaaataa attccaagta gaatcaacct ttaataagtc tagggaaatg attaacaata
2821 tttatatagg agtctaata ccaattcaca aaaatgaaag tagggaaatg attaacaata
2881 atcataggaa tctaacaatc caagtggctt gagaatattc attcttcttg acagtataga
2941 ttctttacaa tttcgtaagt tccaatgtat gttttaggaa tatgaggtca ttactattca
3001 taatctgata cagctttatc ctaaggcctc tctttaaaaa ctacactgca tcatagcttt

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FIGURE 5 (continued)

6181 agtatgtgcc tgtagtccca gctatccagg aggctgagat gggagatcac ctgagcccac
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6301 ctgtctcaaa aaaaaaaatt aattaaaaag ccaggaaaca agacttagct ctaacatcta
6361 acatagctga caaaggagta atttgatgtg gaattcaacc tgatatttaa agttataaa
6421 atatctataa ttcacaattt ggggtaagat aaagcacttg cagtttccaa agattttaca
6481 agtttacctc tcatatttat ttccttattg tgtctatttt agagcaccaa atatatacta
6541 aatggaatgg acaggggatt cagatattat tttcaaagt acattatttg ctgttggtta
6601 atatatgctc tttttgtttc tgtcaaccaa aggatggaca gtgattcaga accgtcaaga
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6781 aaaatcattc tatttgaaat gggatttttt ttaattaaaa aacattcatt gttggaagcc
6841 tgttttaggc agttaagagg agtttctgta caaaaatgtg gaagctaaag ataagggaag
6901 aaaggcagtt tttagtttcc caaaatttta tttttggtga gagattttat tttgtttttc
6961 ttttaggtga atattggctt ggaaatgata aaattagcca gcttaccagg atgggaccca
7021 cagaactttt gatagaaatg gaggactgga aaggagacaa agtaaaggct cactatggag
7081 gattcactgt acagaatgaa gccacaat accagatctc agtgaacaaa tacagaggaa
7141 cagccggtaa tgccctcatg gatggagcat ctacagctgat gggagaaaac aggaccatga
7201 ccattcacaa cggcatgttc ttcagcacgt atgacagaga caatgacggc tggtagtgt
7261 ggcactcttt gctcctgctt taaaaatcac actaatatca ttactcagaa tcattaacaa
7321 tatttttaat agctaccact tcttgggac ttactgtcag ccactgtcct aagctcttta
7381 tgcactctc gaaagcattt caactataag gtagacattc ttactctcat tttacagatg
7441 agatttagag agattacgtg atttgtccaa tgtcacacaa ctaccagag ataaaactag
7501 aatttgagca cagttacttt ctgaataatg agcattttaga taaataccta tatctctata
7561 ttctaaagtg tgtgtgaaaa ctttcatttt catttccagg gttctctgat actaaggggt
7621 gtaaaagcta ttattccagt ataaagtaac aaacacagtc cctagatgga ttgccacaaa
7681 ggcccagtta tctctctttc ttgctatagg gcacaggagg tctttggtgt attagtgtga
7741 ctctatgtat agcacccaaa ggaaagacta ctgtgcacac gagtgtagca gtcttttatg
7801 ggtaatctgc aaaacgtaac ttgaccacgg tagttctgtt tctaataacg ccaaacacat
7861 tttctttcag gttaacatca gatcccagaa aacagtgttc taaagaagac ggtgggtggat
7921 ggtggtataa tagatgtcat gcagccaatc caaacggcag atactactgg ggtggacagt
7981 acacctggga catggcaaag catggcacag atgatgggtg agtatggatg aattggaagg
8041 ggtcatggta ctcaatgagg aagatgagta tgaagatcag gcccttcttc ccacagcaat
8101 agtccccaat acgtagattt ttgtctctct gtatgtgaca acatttttgt acattatgtt
8161 attggaattt tctttcatac attatattcc tctaaaactc tcaagcagac gtgagtgtga
8221 ctttttgaaa aaagtatagg ataaattaca ttaaaaatagc acatgatttt cttttgtttt
8281 cttcattttc cttgtctacc caagaagtaa caaaaagtata gttttgacag agttggtgtt
8341 cataatttca gttctagtgt attgcgagaa ttttcaaata aggaagaggg gtctttttatc
8401 cttgtcgtag gaaaaccatg acggaaaagga aaaactgatg tttaaaagtc cactttttaa
8461 actatattta tttatgtagg atctgtcaaa gaaaacttcc aaaaagattt attaatataa
8521 ccagactctg ttgcaataag ttaatgtttt cttgttttgt aatccacaca ttcaatgagt
8581 taggctttgc acttgtaagg aaggagaagc gttcacaacc tcaaatagct aataaacagg
8641 tcttgaatat ttgaagattt aaaatctgac tctaggacgg gcacgggtggc tcacgactat
8701 aatcccaaca ctttgggagg ctgaggcggg cggtcacaag gtcaggagtt caagaccagc
8761 ctgaccaata tggtgaaacc ccattcttac taaaaatata aaaattagcc aggcgtggtg
8821 gcaggtgctt gtaggtccca gctagcctgt gaggtggaga ttgcattgag ccaagatc

Figure 1. The effect of the concentration of the initiator on the polymerization of α -methylstyrene in the presence of SnCl_4 at 50°C . The concentration of α -methylstyrene was 0.5 mol/L , and the concentration of SnCl_4 was 0.01 mol/L . The polymerization was carried out in CH_2Cl_2 for 24 h. The concentration of the initiator was 0.001 (a), 0.002 (b), 0.005 (c), 0.01 (d), 0.02 (e), 0.05 (f), 0.1 (g), 0.2 (h), 0.5 (i), and 1.0 (j) mol/L.

FIGURE 6

1 mkrmvswsfh klktmkhl11 lllcvflvks qgvndneegf fsarghrpld kkreeapslr
61 papppisggg yrarpakaaa tqkkverkap daggclhadp dlglc1ptgc qlqeallqqe
121 rpirnsvd1 nnnveavsqt ssssfqmyl lkdlwqkrqk qvkdnenvv1 eysselekhq
181 lyidetvnsn iatnlrvlrs ilenlrskiq klesdvsaqm eycrtpctvs cnipvvsgke
241 ceeiirkgge tsemyliqpd ssvkpyrvyc dmtenggt viqnrqdgsv dfgrkw1pyk
301 qgfgnvatnt dgkny1cglpg eywl1gndkis qltrmgptel liemedwk1gd kvkahyggft
361 vqneankyqi svnk1yrgtag nalmdgasql mgenrtmtih ngmffstydr dndgw1tsdp
421 rkqcskedgg gwwynrcha1 npngryywg1 qytwdmakhg tddgvvwmnw kgs1wysmrkm
481 smkirpffpq q

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50